Limbs & Things | 2013 catalog

BRINGING SKILLS TRAINING TO LIFE

PHYSICAL EXAMINATION SKILLS

GENERAL PROCEDURAL SKILLS

SPECIALIST SKILLS

limbsandthings.com

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Visit our Global website for a list of international distributors. See respective websites for ordering, delivery and conditions.

1-2-3 Ways to Order

1 Order Online
You can place your order online with a credit card. We accept Visa, Mastercard and American Express. Simply proceed through the checkout process providing your credit card information. Please note that no charges will be placed on your card until the order is shipped.

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No purchase orders will be shipped without a copy of the purchase order being received.

3 Order by Phone
Phone orders may be placed by calling 866-465-4627 or 912-629-0357. The online shopping cart is a convenient way to organize the products you want to order. Simply add the products you want to order to your cart, and use it as a reference when calling in your order.

Payment Terms

Payment with order or 30 days from invoice for approved accounts. All orders are subject to Limbs & Things Terms and Conditions of Sale. These are available to view on our website or from our Customer Services Department upon request. We reserve the right to request pre-payment on any order. We accept the following credit & debit cards:

VISA MasterCard AMERICAN EXPRESS

Delivery

While we endeavor to meet your delivery requirements, our normal delivery time varies from 2-8 weeks from receipt of order, and may be extended at certain peak periods.

Care and handling of models

Certain of our synthetic soft tissue models contain natural latex. Latex can be discolored by direct or indirect contact with certain metals and prolonged exposure to direct sunlight. To avoid this always use surgical gloves when carrying out a procedure. Always follow the usage and cleaning instructions supplied with the individual model.

Product changes

As we have a policy of continual product improvement, there may occasionally be variations at time of ordering with items shown in the catalog.

All prices are subject to change without notice. Check www.limbsandthings.com for current pricing.

Patents granted
2277826: UK • 5775916: USA • 0990227: Europe, UK, Germany, Spain, France, Italy, Netherlands • 81174/98: Australia • 1023832: Hong Kong • US6336812: USA • 98806331.x: China • 5-512288: Japan • 2 293 585: Canada

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All information correct at time of going to press.

Search for products by skill

Abscess Drainage 51
Abdominal Opening & Closure 47, 49
Abdominal Ultrasound 16-18
Airway Management 20, 23-25, 41, 80, 88-89
Airway Suction 20, 25, 41, 80, 89
Anal & Rectal Care 40
Anoscopy & Proctoscopy 11
Arterial Puncture 26
Arteriotomy 46,47
Auscultation 7-10, 80, 87

Bag & Valve Mask Ventilation 23-24
Bimanual Pelvic Examination 12-13
Birthing Management 79-82
Blood Pressure Measurement 10
Bowel Anastomosis 46-47, 50
Breast Examination 14-15

Cardiology Examination 9
Central Venous Catheterization 32-35
Cervical Smear Procedure 12-13
Chest Drain Insertion 21
Cholecystectomy 71
Colonoscopy 60
Cordocentesis 74
CPR 20, 80-81, 89
Cricothyroidotomy 24-25
Curettage 46-47, 55

Diagnostic Peritoneal Lavage 22

Ear Examination 5-6
Ectopic Pregnancy Removal 69, 73
Edema Assessment 10
Episiotomy 83
Epidural Management 36, 37
Eye Examination 4

FAST Examination 18
Femoral Access 32-33
Fetal Abnormality & Demise 82
FGM Deinfibulation 84
Foot Care 59, 95

Gastric Lavage 41
Gastrostomy training 40-41, 93

Hand Expression of Breastmilk 86
Hernia Repair 61-62
Hysterectomy 73
Ingrowing Toenail Removal 46, 48, 55
Inguinal Hernia Repair 61
Injection Technique ID/SC/IM/Z-Track 31
Intraosseous infusion 89, 90
IV access 22, 27-33, 90-91

Joint Injection 56-58

Knee Aspiration 58
Knot Tying 47-48

Laparoscopy 62-71
Lesion Recognition, Biopsy & Removal 53, 55, 56
Lipoma removal 46-48, 54
Local Anesthesia 46-48
Lumbar Puncture 36-37, 91

Mouth Care 40

Nasogastric Tube Care 40-41, 93
Necrotic Tissue Debridement 51
Needle Aspiration 46-47, 50
Needle Decompression 21
Nerve Block 59

Ophthalmology 4
Otoscopy 5-6

Patient Handling 40, 42, 81, 89, 92
Perineal Repair 83-85
PICC Line Management 34, 90, 93
Podiatry Procedures 59
Port Management 34
Punch Biopsy 53

Rectal Examination 11
Ring Block 46, 48, 55

Salpingectomy 69, 73
Salpingostomy 69, 73
Sebaceous Cyst Removal 46-48, 50, 54
Stoma Care 40-42, 93
Subclavian Needle Puncture 32, 35
Supraclavicular Needle Puncture 35
Suprapubic Catheterization 38-39
Suture Techniques 44-45, 46-48, 50-53

Testicular Examination 11
Thoracentesis 21, 89
Thoracostomy 21
Toenail - Excision & Removal 46, 48, 55
TPN/IVH Care 33
Tracheostomy Care 24-25, 40-41

Ultrasound Techniques 15-18, 21, 32, 35, 63, 74-75
Umbilical Cord Sampling 82, 86
Urethral Sling 74
Urinary Catheterization 38-39, 40, 93

Vaginal Examination 12-13
Vein Patch Grafting 46-47
Venipuncture 22, 27-31, 32-35, 90-91
Venous Cutdown 22
Vermiform Appendix Removal 70

Wound Assessment & Care 94-95

Products that can be used for hybrid simulation are marked in the catalogue with this symbol: HS

Products with this symbol are resectable. When resecting them users must be provided with adequate protection to prevent the inhalation of fumes e.g: extraction, personal respirators.

Product Servicing

Models with the Product Servicing logo can be sent directly to Limbs & Things (UK) for servicing and refurbishment. For further information email customerservice@limbsandthings.com

To make them easier to find, replacement parts and additional interchangeable parts for models are highlighted with yellow boxes.

Search for products by catalog heading

Physical Examination Skills
Products to aid in the development of clinical examination skills

General Physical Examination	4-10
Male Examination	11
Female Examination	12-14
Ultrasound Examination	15-18

General Procedural Skills
Products designed for staged training in clinical procedures

ATLS Skills	20-22
Airway Management	23-25
Venipuncture	26-31
Injection Technique	31
Central Line & Port Management	32-35
Diagnostic Procedures	36-37
Urinary Catheterization	38-39
General Patient Care	40-42

Specialist Skills
Products for specialist and surgical skills training

Limbs & Things learning online™	44-45
PHaSES Range	46-51
Minor Surgery	52-56
Joint Injection	56-58
Podiatry	59
General Surgery	60-61
Laparoscopic Surgery	62-71
Gynecology	72-74
Obstetrics & Midwifery	75-86
Pediatrics	87-93
Wound Care	94-95
Index	96
Terms & Conditions	97

Bringing Skills Training to Life ...

Vision Statement
Limbs & Things, Inc. aims to be the #1 curriculum-based Task Trainer manufacturer and supplier in the USA and Canada.

Mission Statement
Limbs & Things designs, manufactures and promotes clinical and surgical skills training products. The Company is dedicated to improving patient care by supporting healthcare professionals in their training.

Serving training markets in Clinical Skills, Women's Health and the Surgical Specialties, the company's goal is to produce products which allow clinical educators to successfully deliver their curriculum requirements for physical examination and procedural skills.

Simulation ... A Curriculum Imperative!
Simulation-based training is rapidly becoming a curriculum imperative as it continues to cement its place as a foundation stone of lifelong learning in healthcare education. For instance, the planned release in Spring 2013 of the joint ACS / ASE Medical Student Skills Curriculum (Acton, 2012) is designed to address the increasing complexity and demands of knowledge acquisition, patient safety and quality for the undergraduate medical student. Meanwhile, various medical specialty boards have either made or are examining position statements about the need for simulation-based education in postgraduate Residency Programs.

As these curricula develop and are more widely adopted Limbs & Things focus on innovation in Task Trainer and Simulator design will gather pace. Our commitment is simply to support the aims of our colleagues in all spheres of health care education. Therefore, we work with simulation specialists throughout the world to develop products that reflect our desire to include communication skills in all aspects of teaching and learning. Whether you are training in a Clinical Skills Lab, performing In Situ Training, or running an Objective Structured Clinical Examination (OSCE) our products remain consistent in quality, durability and affordability.

In 1990, Margot Cooper founded Limbs & Things with the aim of aiding the development of medical education. Her commitment, innovation and perseverance led to her receiving two Dr. Frank H Netter Awards (For Special Contributions to Medical Education, 1994; PROMPT Birthing Simulator, 2009) and a UK Millennium Award (Pulsatile Heart Model, 2000). In 2012, the Birthing Baby that was re-designed for SimMom won "The Horners Award", which is given to products that show innovation in design & manufacturing, or in the processing of plastics. This prestigious award is granted by one of the oldest guilds and livery companies in the City of London, UK. Limbs & Things was also cited as one of the Top 100 fastest growing business in Southwest England in 2012.

Our growth has mirrored that of the worldwide simulation community and has been spurred by the wider adoption of simulation across the globe. During the last 10 years, there have been over 1500 studies conducted that focus on the use of simulation for teaching and learning procedural skills (Nestel et al, 2011). Standardized Patients (SP's) and Task Trainers are the second and third most frequently used methods of teaching procedural skills. The use of Task Trainers and SP's together (Hybrid Simulation), allows learners to focus not only on learning the procedural skill, but to expand the focus of learning to include communication, collaboration and health literacy. Simply, simulation has been proven to increase skills, knowledge, and attitudes of learners, as well as provide an environment that is highly satisfactory to both learners and instructors (Nestel et al, 2011).

Limbs & Things products have been used in various research, simulation and educational programs that have highlighted the benefits of Task Trainer and Hybrid Simulation. For example, the effective use of hybrid Obstetric simulation was demonstrated by Dr. Tim Draycott and his Team at Southmead Hospital in Bristol, England. Dr. Draycott incorporated the PROMPT Birthing Simulator into a Multi-Disciplinary Course, which has been linked to improvements in trainee's communication skills in the delivery room (Siassakos et al, 2010). Additionally, the PROMPT Birthing Simulator has been used in other UK & North American studies that identify positive improvements in shoulder dystocia delivery training, with an impact being tracked to improvements in Obstetric outcomes.

Limbs & Things is committed to the ideal of mastery-based education that is focused upon adverse event reduction, improvements in patient safety, the promotion of technical & communication skills to improve clinical performance and the promotion of Interprofessional Education within Team Training. We believe that our product ranges provide our healthcare and educational colleagues with an exemplary tool that will enhance their work in all of these areas. If you have any questions about the skills training products we supply, or would like to discuss how to add simulation to your curriculum, please get in touch with us.

Reference:

Medical Student Skills Simulation in 2012. Acton, Robert. MEdSim: The Journal for Healthcare Education, Simulation and Training. 4:29. November 2012.

Simulation for Learning and Teaching Procedural Skills: The State of the Science Nestel, Debra; Groom, Jeffrey; Eikeland-Husebø, Sissel; O'Donnell, John M. Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare. 6(7):S10-S13, August 2011.

Exploratory Randomized Controlled Trial of Hybrid Obstetric Simulation Training for Undergraduate Students. Siassakos, Dimitrios; Draycott, Timothy; O'Brien, Katherine; Kenyon, Charlotte; Bartlett, Christine; Fox, Robert. Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare. 5(4):193-198, August 2010.

Limbs & Things headquarters in Bristol, UK

Physical Examination Skills

Products to aid in the development of clinical examination skills

Learning how to conduct a thorough and detailed head-to-toe physical examination is a key element of all medical undergraduate, nursing and allied healthcare practitioners training.

The Limbs & Things Physical Examination Skills product range has been carefully chosen to help the civilian & military trainee to develop expertise in both normal and abnormal physical findings. We are confident that our range of Task Trainers and Hybrid Simulation products will allow you to develop varied desktop and hybrid simulation opportunities within your curriculum.

Popular products

Eye Examination Simulator

Rectal Examination Trainer Mk 2

Clinical Female Pelvic Trainer (CFPT) Mk 3

Strap-on Breasts

Products in this section

Eye Examination Simulator	4
Ear Examination Simulator	5
Otosim™ Otoscopy Training & Simulation Unit	6
Lecat's Ventriloscope	7
Lung Sound Auscultation Trainer	8
Cardiology Patient Simulator 'K'	9
'K' Plus Training System	9
Blood Pressure Measurement Trainer	10
Pitting Edema Trainer	10
Clinical Male Pelvic Trainer	11
Rectal Examination Trainer Mk 2	11
Clinical Female Pelvic Trainer (CFPT) Mk 3	12-13
Strap-on Breasts	14
Examination & Diagnostic Breast Trainer	14
Breast Ultrasound Examination Phantom	15
ECHOZY Ultrasound Examination Training Model	16
ABDFAN Ultrasound Examination Training Model	17
FAST/ER FAN Ultrasound Examination Training Model	18

New products

Otosim™ Otoscopy Training & Simulation Unit

Blood Pressure Measurement Trainer

Pitting Edema Trainer

Eye Examination Simulator

Part No: **KKM82**

A sophisticated trainer for teaching and practicing the use of an ophthalmoscope, examining the ocular fundus and identifying diseases and conditions within the eye.

Skills

- Use of an ophthalmoscope (*not supplied*)
- Examination technique
- Identification of up to 90 cases
- Communication skills

Features

- Unique set of image processed slides taken from real cases to provide a highly realistic 3D perspective
- 2 step pupil diameter variations (3.5mm, 8.0mm)
- 3 step slide locator to simulate hyperopic, normal and myopic views
- Red reflex
- Eyeballs with lenses that reproduce a realistic visual axis and view of eyegrounds
- Soft and supple material to allow the eyelids to be raised
- 10 common diseases/conditions:
  - normal eyeground
  - hypertensive retinopathy: arteriolar vasoconstriction grade 3, arteriolosclerosis grade 1, hemorrhages, cotton wool spots and simple vein concealment
  - simple/background diabetic retinopathy: microaneurysm, hemorrhages & hard exudates
  - papilloedema (chronic phase)
  - papilloedema (acute phase)
  - glaucomatous optic atrophy: glaucomatous optic disc cupping & nerve fiber defect
  - retinal vein occlusion (acute phase): flame-shaped hemorrhage & cotton wool spots
  - retinal vein occlusion (after retinal laser photocoagulation)
  - toxoplasmosis: retinochoroiditis
  - age-related macular degeneration: macular exudates & subretinal hemorrhage

Head is mounted on sturdy lightweight plastic base. The wheel in the forehead allows the pupil diameter to be changed

Remove back of head to change slides and the depth of the fundus (3 settings)

Package supplied

- 1 **Ocular Fundus Slides (Set of 10)**
  Part No: **KK11220-010**
- 1 Eye examination simulator base
- 1 Slide holder
- 1 Carry case

Packed weight (lbs) & dimensions (in)	7.7	lb	9.8	l	18.5 w	13.8	h

Slide: Simple/background diabetic retinoptathy (microaneurysms, hemorrhages and hard exudates)

Slide: Retinal vein occlusion (after retinal laser photocoagulation)

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Ear Examination Simulator

Part No: **KKM88**

A life-size model for training examination of the external acoustic meatus and tympanic membrane directly with an otoscope, and for foreign body removal.

Skills

- Use and handling of an otoscope (*not supplied*)
- Examination of the acoustic meatus and tympanic membrane
- Communications skills and examination protocol
- Recognition of 11 cases
- Earwax and foreign body removal

Features

- 11 matching sets of right and left ears
- Flexible neck allows proper head positioning
- Examination possible on both sides
- Accurately reproduced and flexible auricle
- Includes a normal case for basic training
- Realistic soft material
- Foreign body removal set supplied. Includes simulated earwax, small toys and small sponges. (A pair of ears without eardrums are included when performing these procedures)
- Suitable for use with all otoscopes
- 10 clinical cases included
  - normal
  - normal (with wider auditory canal)
  - serous otitis media (SOM)
  - mucoid otitis media (MOM)
  - chronic suppurative otitis media (CSOM)
  - acute suppurative otitis media (AOM)
  - cholesteatoma
  - tympanosclerosis
  - traumatic perforations
  - cerumen block
  - practice of foreign substance removal

Package supplied

- 1 **Ear Set** Part No: **KK11222-010**
  Contains:
  - 22 ears (11 matching sets of right & left)
  - foreign body removal set
  - talcum powder compact
- 1 Ear examination simulator base
- 1 Carry case

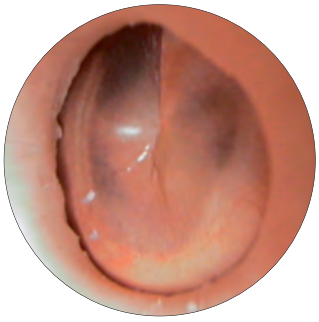
Packed weight (lbs) & dimensions (in)	24.3 lb	19.7 l	11.8 w	27.6 h

KYOTO KAGAKU

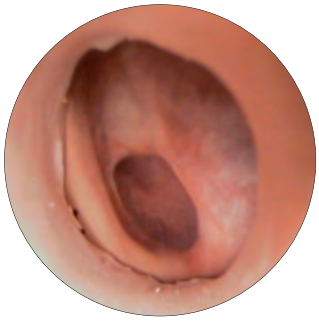
Product details correct at time of going to press. Subject to change.

Simulator with 11 matching sets of right and left ears

Ears simply pull out for easy changeover



Left ear drum: normal



Left ear drum: chronic suppurative otitis media (CSOM)

NEW

OtoSim™ Otoscopy Training & Simulation Unit

Part No: **OS11-001**

OtoSim™ is an integrated system that dynamically and interactively improves the accuracy of diagnosing pathologies of the ear through experiential learning. Both students and current professionals can practice to improve their knowledge-base of ear pathologies and otoscope technique.

An extensive array of tutorials and high resolution images provide significant content for further student skill development. The instructor's ability to provide immediate feedback and guidance through OtoSim's™ integrated platform and software is critical to the simulation experience and its effectiveness for learning interactively.

Realistic earform and canal

OtoSim™ in use

Skills

- Diagnosing pathologies of the ear

Features

- Realistic earform and canal for students to practice and improve their otoscopic technique
- Images of various normal and pathological conditions of the middle ear and external auditory canal are projected inside the device for students to view
- OtoSim™ provides unique optics that maximize image resolution and clarity
- Proprietary database of over 200 high resolution images from the Hawke Library to instruct, practice and test students
- Connect upto 6 OtoSims™ to a single trainer laptop to effectively instruct groups at the same time
- Easy-to-use and intuitive graphic user interface
- Detailed text description of ailments, ear and biopsy images provide sufficient material for instruction and self-guided tutorials
- Software includes:
  - Introduction to otology
  - External auditory canal (148 slides)
  - Middle ear (150 slides)
  - Pneumatic otoscopy (introduction and slides)
  - Specialist otology (34 slides)
  - Self assessment (28 questions)
- Software enables the instructor to interact with students by landmarking specific image characteristics using the marking tool. This feedback is projected in real time through the device
- Software is compatible with Mac OS X and Windows (XP, Vista, 7)

Visit our website for more information

Find the product by typing the Part No into the search box

Package supplied

- 1 OtoSim™ Simulator device
- 1 OtoSim™ Software
- 1 USB cable
- 1 Introductory ear
- 1 Pelican® transport case

OtoSim
REVOLUTIONIZING OTOSCOPY TRAINING
WWW.OTOSIM.COM

Packed weight (lbs) & dimensions (in)	8.81 lb	11	l	10.2 w	9.8 h

Accessories available:

Pneumatic Otoscopy Trainer Part No: **OS12-001**
With the Pneumatic Otoscopy Trainer for OtoSim™, students will learn to: make a proper seal at the opening of the ear canal with a 5mm pneumatic speculum; apply appropriate positive and negative pressures for various ear pathologies using the pressure graph; identify and be familiar with the way the tympanic membrane behaves and looks when insufflated under various ear pathologies (eg. normal vs. a fluid-filled membrane).
Package supplied • Pneumatic Ear • Pneumatic Control Box • Pneumatic Otoscopy Software • One Year Warranty

Introductory Earform Part No: **OS31-001**
Wide, open ear canal, included with OtoSim

Normal Adult Earform Part No: **OS31-002**
Narrow, unexposed ear canal

Pediatric Earform Part No: **OS31-003**
Narrower, unexposed ear canal

OtoSim Approved & Configured Laptop
Part No: **OS51-001**

OtoSim Recommended USB2.0 multi-port hub
Part No: **OS52-001**

2 Year Extended Warranty (Total 2 Years)
Part No: **OS71-001**

3 Year Extended Warranty (Total 3 Years)
Part No: **OS71-002**

OtoSim Software License v1.2 Part No: **OS72-002**

Lecat's Ventriloscope

Standard Package Part No: **SSST1001**
Educator's Package Part No: **SSED1003**
Pediatric Standard Package Part No: **SSPST1002**
Pediatric Educator's Package Part No: **SSPED1004**

The Ventriloscope has been developed by Dr. Paul Lecat to transmit normal or abnormal sounds from lung, heart, bowel, BP, Doppler, etc. to a realistic stethoscope receiver. It can be used with Standardized Patients or mannequins.

Skills

- Distinguish normal and abnormal sounds
- Placement and use of the stethoscope
- Assess proper use of diaphragm and bell of stethoscope for appropriate sounds
- Integrate findings with history gathered from a live patient
- Learn to document auscultatory findings accurately
- Can be used to teach Blood Pressure to large or small groups
- Can be used to to teach Doppler and Percussion sounds

Features

- Simple to operate
- Completely integrates history taking with physical exam, including abnormals
- Place any sound, anywhere on a live patient or mannequin
- Use any MP3 recording (create your own and load it onto an SD memory card)
- Can be used on any mannequin
- Allows for changes in murmurs with maneuvers
- Students can teach each other
- Allows precision timing of sounds
- Transmitter is easily concealed in the hand or pocket and receiver is incorporated into cardiology style stethoscope
- Uses wireless transmission with cutting edge chip technology. Operates on a reserved frequency band and cycles frequencies for absolute test security
- Can be used with auditorium sound systems or speakers for group teaching
- Battery lasts for up to 8 hours of continuous use per charge. Charging is complete in less than an hour
- Volume control allows trainee to detect even faint sounds

Standard Package supplied

- Ventriloscope transmitter
- Cardiology style Stethoscope receiver & accessory kit
- SD memory card with 12 sounds:
  Normal heart, S4 gallop, Tachycardia, Bowel sounds, S3 gallop, Normal inspiration, Bruit, Normal expiration, Korotkoff, Expiratory wheezes, Korotkoff (tachycardia), Inspiratory crackles
- USB cables for charging & instruction manual
- Locking aluminum carrying case
- 1 year warranty (extended warranty may also be purchased)

Educator's Package supplied, as Standard plus:

- Set of Bose multimedia loudspeakers
- Extended 2 year warranty (invalid if product is misused or neglected)

LECAT'S SIMPLYSIM

Packed weight (lbs) & dimensions (in)	Depends upon the product supplied

Accessories available:

Survival Skills Kit Part No: **SSSS3001**
A collection of 4 complete case scenarios for teaching and evaluation. Using this kit in conjunction with the Ventriloscope provides you with all of the tools to perform an exceptional hybrid simulation

Precept by Numbers Educational Board
Part No: **SSPN3002**
A magnetic dry erase board for teaching and testing at stations, in a classroom, and as an aide for standardized patient training

Heart Trigger Part No: **SSHT1005**
Enables the synchronization of the patient's or mannequins pulse rate with the cardiac sounds heard through the Ventriloscope. This synchronization allows the student to identify whether a murmur or other sound is systolic or diastolic

Cardiac Soundcard 1 Part No: **SSSC2001**
• Aortic Insufficiency, simulated • Aortic Stenosis • Mitral Stenosis, simulated • Quadruple rhythm, simulated • Summation gallop, simulated • Aortic Sclerosis • Atrial Fibrillation: rate 80, rate 120, rate 180 • Mitral Insufficiency, soft • S2 split: narrow, wide

Cardiac Soundcard 2 Part No: **SSSC2002**
• Hamman's crunch • ASD fixed wide S2 split • Bradycardia about 42 BPM • Tachycardia about 120 • Tachycardia about 180 • Normal S1 S2 at apex, S1 louder • Normal S1 S2 at base, S2 louder • Normal S2 splitting at base with respiration • Paradoxical S2 splitting at base with respiration • One component pericardial rub • Two component pericardial rub • Three component pericardial rub

Pulmonary Soundcard 1 Part No: **SSSC2003**
• Egophony, female voice: normal, abnormal • Egophony, male voice: normal, abnormal • Bronchial Breath sounds: inspiration, expiration • Whispered pectoriloquy: normal, abnormal • Wheezes, expiratory: monophonic, mid-to-end, soft, end

Pulmonary Soundcard 2 Part No: **SSSC2004**
• Crackles, subtle end inspiratory • Wheezes, inspiratory • Inspiration, diminished • Expiration, diminished • Crackles, inspiratory: early, mid, end, early inspiratory with diminished BS • Stridor, inspiratory • Pleural rub: inspiratory, expiratory

Murmurs Soundcard 1 Part No: **SSSC2005**
• Aortic stenosis: loud, medium loud, medium, soft • Aortic insufficiency (regurgitation) loud • Aortic insufficiency: medium loud, medium, soft • Mitral insufficiency (regurgitation) loud • Mitral insufficiency: medium loud, medium, soft

Murmurs Soundcard 2 Part No: **SSSC2006**
• Mitral stenosis: loud, medium loud, medium, soft • Mitral valve prolapse click/murmur: not squatting, squatting • Mitral valve prolapse: single click, multiple clicks

Percussion Soundcard Part No: **SSSC2007**
• Single beats: flat, dull, resonance, tympany • Auscultatory: normal single beat, abnormal soft single beat • Coin, single beat: normal, abnormal • Scratch over liver single beat • Scratch soft single (normal)

Infant/Doppler Soundcard Part No: **SSSC2008**

Blank SD Soundcard Part No: **SSSD2009**

Full Soundcard Library Part No: **SSSD2010**

Extended Warranty Part No: **SSEW1006**

Lung Sound Auscultation Trainer

Part No: **KKM81-S**

A dedicated lung sound auscultation trainer allowing the trainee to learn to distinguish and identify different lung sounds, and to diagnose their associated conditions.

Skills

- Use and placement of a stethoscope
- Identification of sounds and their variations
- Relationship between sounds and auscultation sites
- Ability to describe sounds clearly to others

Features

- Cases are recorded from real patients
- 15 lung auscultation sites (7 anterior and 8 posterior) are used
- Sites are fully synchronized for all cases
- 35 programmed cases (33 of which can be heard with or without heart sounds)
- Torso rotates on the base to allow auscultation of the anterior (front) and posterior (back) lung fields
- Lung sounds structure follows American Thoracic Society classification
- Detailed explanation of lung sounds provided and synchronizes with the case being listened to. These include a description of the sound to aid identification, an explanation of how and why the sound is generated, and a listing of possible conditions. These are enhanced with illustrations, chest radiographs and CT images
- External speakers can be used for group study, problem based learning and discussions
- Sound waves can be displayed graphically to aid understanding and improve retention
- Respiration rate can be varied
- Each of the 15 speakers, which are built into the chest wall, has a separate computer based volume control
- Suitable for assessing trainees' skills

Package supplied

- 1 LSAT Trainer
- 1 PC
- 1 Amplifier
- 2 Speakers

Visit our website for more information

Find the product by typing the Part No into the search box

Due to a policy of continuing product development and software upgrade, the specifications and features of the current model may vary from those shown in this catalog. Stethoscope is not supplied.

Packed weight (lbs) & dimensions (in)	Multiple boxes & weights

Anterior auscultation sites

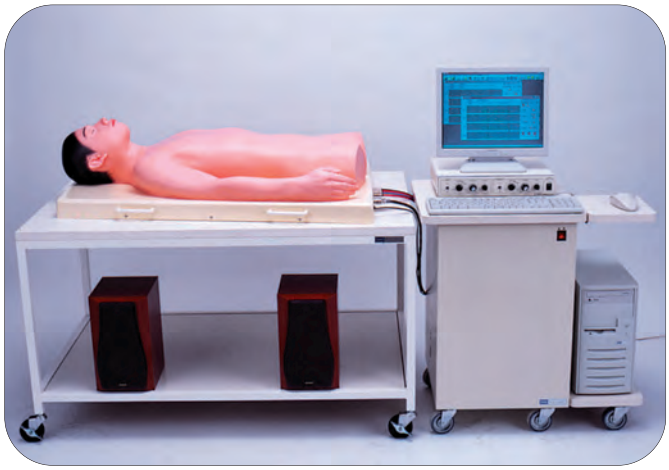
1 Trachea
2 Upper right lung field
3 Upper left lung field
4 Middle left lung field
5 Middle right lung field
6 Lower right lung field
7 Lower left lung field

Posterior auscultation sites

0 Upper left lung field
1 Upper right lung field
2 Middle right lung field
3 Middle left lung field
4 Lower left lung field
5 Lower right lung field
6 Right costophrenic angle
7 Left costophrenic angle

Middle left lung field

KYOTO KAGAKU



Cardiology Patient Simulator 'K'

Part No: **KKM84-S**

A simulated cardiology patient on which a comprehensive clinical examination can be performed (auscultation, abdominal, cardiac and vascular observation, and electro cardiographs).

Skills

- Detailed cardiology clinical examination
- **Auscultation**: heart sounds at 5 sites; appropriate breath sounds
- **Inspection**: jugular venous waves on both sides of the neck; abdominal respiratory movement
- **Palpation**: cardiac impulses: right ventricle, left ventricle, and dilated left ventricle; arteries at 8 sites; abdominal respiratory movement
- Electrocardiograph (ECG) monitoring

Features

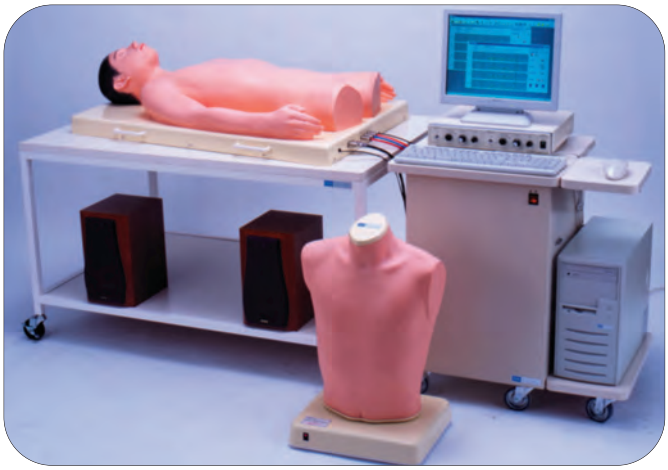
- **Auscultation**: heart sounds can be heard at the four primary auscultation sites (aortic, pulmonic, tricuspid and mitral); auscultation of the 1st sound (S1) and the 2nd sound (S2) can both be done with electrocardiogram monitoring; relevant tracheal and bronchial breath sounds are simulated
- **Jugular veins**: pulsation of jugular venous waves can be observed on both sides of the neck; timing and strength of 'a' waves and 'v' waves can be differentiated
- **Palpation**: carotid, medial, radial and femoral arteries can be palpated at eight sites on both sides; variations of arterial pulse waves in different cardiac conditions or arrhythmias can be detected; cardiac impulses can be identified at the right ventricle, left ventricle, and dilated left ventricle
- **Monitoring**: electrocardiogram (ECG), Jugular Venous Pulse (JVP); Carotid Arterial Pulse (CAP) and Apexcardiogram (ACG) can all be monitored; full explanations for self-directed learning are available; phonocardiograms are available to assist in learning heart; sounds and murmurs
- Visit the product page on our website for more features

Package supplied

- Visit the product page on our website for a full listing

Packed weight (lbs) & dimensions (in)	Multiple boxes & weights

KYOTO KAGAKU



'K' Plus Training System

Part No: **KKM8481-S**

Auscultation is one of the most important skills in physical examination. The 'K' Plus Training System is a combination of the Mr 'K' and Mr Lung auscultation trainers. This gives the full functionality of the independent systems while sharing core components to reduce the cost for the skills center.

Skills and Features

- Lung Sound Auscultation Trainer (Page 8)
- Cardiology Patient Simulator 'K' (Pages 9)

Package supplied

- 1 Cardiology Patient Simulator K
- 1 controller/PC table
- 1 PC
- 1 Rib sheet
- 5 Replacement pulse tubes
- 1 LSAT Trainer
- 1 Text book
- 1 Amplifier
- 2 Speakers

Packed weight (lbs) & dimensions (in)	Multiple boxes & weights

KYOTO KAGAKU

Visit our website for more information

Find the product by typing the Part No into the search box

Due to a policy of continuing product development and software upgrade, the specifications and features of the current model may vary from those shown in this catalog

Blood Pressure Simulator

Part No: **KKMW7**

The trainer is designed to assist the student in learning how to measure blood pressure. The controller unit can reproduce a range of blood pressure examples (based on the WHO classification), which with a random play function, helps repeated trials in self-learning and group study. The Trainer can also be used for objective skills assessment of trainees.

Skills
- Cuff placement
- Manual pressurization
- Auscultation of Korotkoff sounds
- Palpation of radial pulses
- Blood pressure reading
- Depressurization

Features
- A range of blood pressure examples are provided: desirable, normal, prehypertension, hypertension (Stage 1-3), isolated systolic hypertension, auscultatory gap, no Korotkoff sounds
- Decompression rate and blood pressure are shown digitally
- Can be connected to external speakers (not included) to share the Korotkoff sounds with trainees
- User/Normal Mode: has presets suitable for introducing the procedures to trainees and for skills assessments
- Random Mode: for self-learning and group learning. Replays the preset cases randomly

Package supplied
- 1 Arm model
- 1 Controller with AC adaptor
- 1 Aneroid sphygmomanometer unit
- 1 Instruction manual
- 1 Carrying bag

Product details correct at time of going to press. Subject to change.

Packed weight (lb) & dimensions (in)	6.6	lb	26	l	9	w	7.8	h

KYOTO KAGAKU

Pitting Edema Trainer

Part No: **KKMW1**

The trainer consists of five pitting edema models (one normal and four variations) used for training students in the recognition, examination and classification of leg edema. The models can be worn by a standardized/simulated patient (SP) or attached to any full body mannequin.

Skills
- Identification of different resistances and depths of pitting edemas

Features
- Five variations of pitting edema:
  - normal (no indentations)
  - light (indentations approx 2mm deep)
  - moderate (indentations approx 4mm deep)
  - deep (indentations approx 6mm deep)
  - very deep (indentations approx 8mm deep)
- With the fibula plate inserted the models can be used on a work surface (away from an SP or mannequin)

Package supplied
- 5 variations of pitting edema models

Packed weight (lb) & dimensions (in)	2.2	lb	10.2	l	8.6	w	4.7	h

Product details correct at time of going to press. Subject to change.

KYOTO KAGAKU

Clinical Male Pelvic Trainer

Part No: **60278**

Presents the key anatomical features of the male pelvic region including genitals, anus and pertinent internal organs, for teaching 'hands-on' examination.

Skills

- Learning examination procedure
- Testicular examination
- Rectal examination of the prostate

Features

- Gonads and vas deferens are present
- Realistic anus
- Can be used in two positions (supine and left lateral)
- Soft tissue elements are removable and replaceable:
  - penis, bladder & prostate
  - perineum, testicles & bowel
  - abdominal wall
- Skin surface is washable using soap and water

Package supplied

- 1 **Perineum, Testicles & Bowel** Part No: **60373**
- 1 **Penis, Bladder & Prostate** Part No: **60381**
- 1 **Male Abdominal Wall** Part No: **60266**
- 1 **Silicone Oil (50ml)** Part No: **50180**
- 1 Base

Packed weight (lbs) & dimensions (in)	9.0 lb	7.5 l	15.8 w	15.8 h

Rectal Examination Trainer Mk 2

Part No: **60120**

Allows for the practice of diagnostic skills associated with rectal examination.

Skills

- Digital examination of prostate
- Digital rectal examination
- Insertion and use of anoscope and proctoscope

Features

- Latex free
- Two interchangeable perineums:
  - Normal for prostate examination
  - Pathology featuring polyp & carcinoma
- Five interchangeable prostates: normal, bilateral benign, unilateral benign, bilateral carcinoma, unilateral carcinoma
- Carcinomas of prostates are hard to the touch
- When in use the prostate is hidden and cannot be seen by the trainee
- Prostates can be easily and quickly changed
- Palpable sacrum
- Realistic sphincter tone

Package supplied

- 1 **Mk 2 Rectal Examination Perineum - Normal** Part No: **60122**
- 1 **Mk 2 Rectal Examination Perineum - Pathology** Part No: **60123**
- 1 **Mk 2 Rectal Examination Prostates (Set of 5)** Part No: **60121**
- 1 **Silicone Oil (50ml)** Part No: **50180**
- 1 Base
- 1 Carry case

Packed weight (lbs) & dimensions (in)	16.6 lb	13.4 l	16.5 w	16.5 h

Clinical Female Pelvic Trainer (CFPT) Mk 3 - Advanced

Part No: **60905**

In response to customer feedback, the CFPT Mk 3 has been designed with three major improvements in mind:
- greater durability: new materials are harder wearing
- simplified design: model is easy to disassemble and uterine modules are quickly and easily changed (no clips or screws)
- greater variety of modules: each with a different combination of uterine & cervical anatomical variations, and additional pathologies

Presents accurate anatomical and tactile representation of the female pelvis for hands-on examination and diagnosis of pathologies and abnormalities. It can be used for many levels of training from undergraduate onwards, as well as family health.

Skills

- Recognition of perineal and pelvic anatomy including bony landmarks
- Digital vaginal examination
- Bi-manual examination
- Cervical smear procedure (including use of speculum)
- Digital rectal examination

Features & Improvements

- Interchangeable uterine modules with different complications are included
- Modules can be changed quickly and easily
- Each uterus is presented at the correct anatomical angle
- Each cervix is more pronounced, as in real life
- Soft and strong perineum & labia
- Labia can be parted more realistically
- Anus and lower bowel is present in all Modules
- Abdominal wall with fat layer makes palpation more realistic
- Abdominal wall can be removed quickly and easily
- Partial thighs aid anatomical orientation
- Water-based lubricant supplied to aid digital examination and use of speculum
- Modules can be easily cleaned to remove lubricant
- All components are latex free

Package supplied

- 1 **CFPT Mk 3 - Standard** Part No: **60900**
- 1 **CFPT Module 2** Part No: **60921**
- 1 **CFPT Module 3** Part No: **60922**
- 1 **CFPT Module 4** Part No: **60923**
- 1 **CFPT Module 5** Part No: **60924**
- 1 **CFPT Module 6** Part No: **60925**
- 1 **CFPT Module 7** Part No: **60926**

Packed weight (lbs) & dimensions (in)								
	20	lb	26.4	l	18.9	w	11.8	h

Abdominal wall lifts off...

... allowing uterine Module to be lifted out

Pelvis has realistic anatomy modelled from CT scan data

Insertion of speculum prior to cervical smear

CFPT Abdominal Insert

Part No: **60910**

Packed weight (lbs) & dimensions (in)								
	0.7	lb	12.2	l	9.0	w	6.3	h

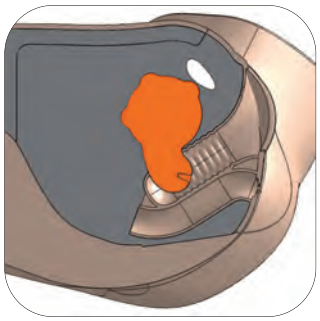
Packed weight (lbs) & dimensions (in)								
	18.4	lb	19.3	l	19.3	w	14.2	h

CFPT Module 1: Normal - Nulliparous Cervix

Part No: **60920**

Supplied with CFPT Mk 3:
- Standard **60900**
- Advanced **60905**

Packed weight (lbs) & dimensions (in)								
2.1	lb	12.2	l	9.0	w	6.3	h



CFPT Module 2: Large Fibroid - Nulliparous Ectropion Cervix

Part No: **60921**

Supplied with CFPT Mk 3:
- Advanced **60905**

Packed weight (lbs) & dimensions (in)								
1.15	lb	12.2	l	9.0	w	6.3	h

CFPT Module 3: Small Fibroid - Nulliparous Polyp Cervix

Part No: **60922**

Supplied with CFPT Mk 3:
- Advanced **60905**

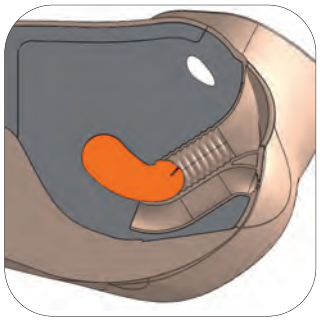
Packed weight (lbs) & dimensions (in)								
2.53	lb	12.2	l	9.0	w	6.3	h

CFPT Module 4: Ovarian Cyst - Multiparous Cervix

Part No: **60923**

(Cyst is on the right side).
Supplied with CFPT Mk 3:
- Advanced **60905**

Packed weight (lbs) & dimensions (in)								
2.1	lb	12.2	l	9.0	w	6.3	h



CFPT Module 5: Retroverted - Multiparous Cervix

Part No: **60924**

Supplied with CFPT Mk 3:
- Advanced **60905**

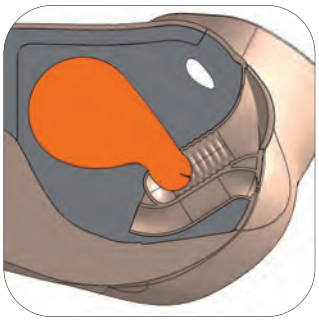
Packed weight (lbs) & dimensions (in)								
2.1	lb	12.2	l	9.0	w	6.3	h

CFPT Module 6: 10-12 Weeks Pregnant

Part No: **60925**

Supplied with CFPT Mk 3:
- Advanced **60905**

Packed weight (lbs) & dimensions (in)								
2.2	lb	12.2	l	9.0	w	6.3	h

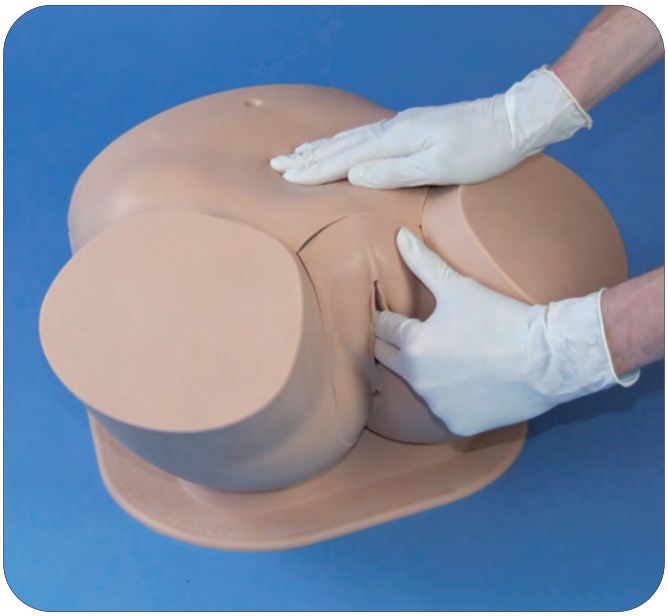


CFPT Module 7: 14-16 Weeks Pregnant

Part No: **60926**

Supplied with CFPT Mk 3:
- Advanced **60905**

Packed weight (lbs) & dimensions (in)								
2.87	lb	12.2	l	9.0	w	6.3	h



Clinical Female Pelvic Trainer (CFPT) Mk 3 - Standard

Part No: **60900**

Package supplied

- 1 **CFPT Abdominal Insert** Part No: **60910**
- 1 **CFPT Module 1: Normal - Nulliparous Cervix** Part No: **60920**
- 1 Lower torso
- 1 Carry case
- 1 Base
- 1 Tube of aqueous gel

Packed weight (lbs) & dimensions (in)								
18.4	lb	19.3	l	19.3	w	14.2	h

‘Strap-on’ Breasts

Part No: **40100**

For training in the examination of the breasts, axillae & clavicular regions, and for the communication skills involved.

Skills

- Professional-to-patient communication (When worn by male trainees they can gain a greater empathy with female patients by experiencing breast examination)
- Recognized examination techniques
- Identification of anatomical landmarks and lymph nodes
- Diagnosis of pathologies

Features

- Two part model:
  - easy-fit support vest which is worn by a fellow student or a mannequin
  - soft tissue chest (including lower neck, clavicle and axillae) which attaches to the vest
- Soft tissue looks and feels realistic
- Breasts are of realistic weight with significant ptosis
- Supplied with normal nodes on one side and enlarged nodes on the other
- Lumps & Bumps Pathologies Set (cyst, lipoma, fibroadenoma, carcinoma) can be placed in various positions between the soft tissue chest and the breast infills
- Skin surface is washable using soap and water

Package supplied

- 1 **Lumps & Bumps Pathologies Set** Part No: **00125**
- 1 Easy-fit vest
- 1 Soft tissue chest
- 2 Breast infills
- 1 Laerdal Resusci® Anne adaptor kit

Packed weight (lbs) & dimensions (in)	10 lb	9.8 l	16.9 w	21.7 h

Examination & Diagnostic Breast Trainer

Part No: **40044**

A life-size realistic breast used for training in examination procedure and diagnostic techniques.

Skills

- Recognized clinical breast examination technique
- Diagnosis of pathologies:
  - carcinoma
  - fibroadenoma
- Aspiration of a cyst
- Self-examination technique

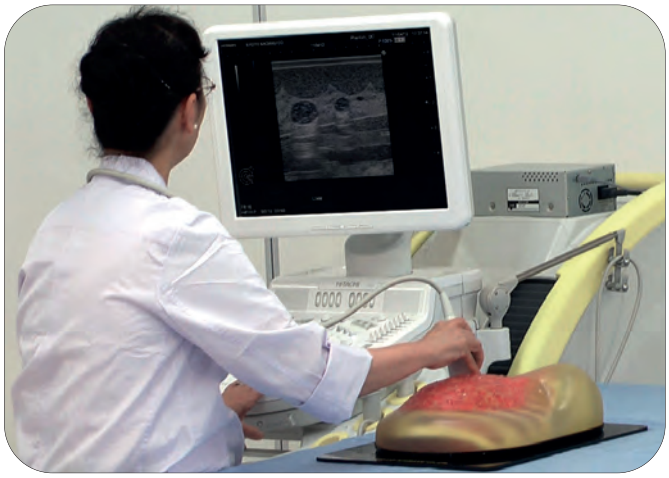
Features

- Breast is warm to the touch
- Responds to gentle palpation in an extremely lifelike way
- Simulated carcinoma and fibroadenoma
- Benign cyst for aspiration
- Variable cyst volume (adjusted using a hidden refillable reservoir attached to the underside of the breast)
- Lightweight and compact base allows for:
  - self-examination (when held up against chest)
  - table top presentation
- Skin surface is washable using soap and water

Package supplied

- 1 **Examination & Diagnostic Breast** Part No: **40040**
- 1 **Breast Aspirant (50ml)** Part No: **40106**
- 1 Rigid two-part plastic base

Packed weight (lbs) & dimensions (in)	2.8 lb	5.5 l	10.6 w	12.6 h



Benign tumor

Breast Ultrasound Examination Phantom

Part No: **KKMUS-6**

A superior phantom for training in basic breast ultrasound examination.

Skills

- Basic breast sonography

Features

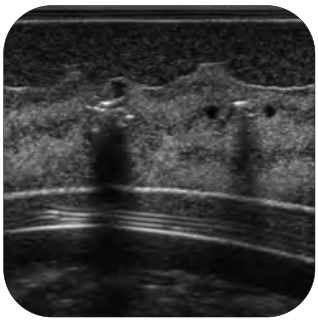
- Simulated targets with different echogenicities are embedded in the phantom mammary gland
- Embedded targets include lymph nodes, cyst, mammary ductal ectasia, benign tumor and malignant tumor
- Allows for the visualization of:
  - subcutaneous adipose
  - mammary gland
  - galactophore
  - Cooper's ligament
  - retromammary adipose
  - costae
  - clavicle
  - pectoralis major
  - lung
  - lymph nodes at axilla

Package supplied

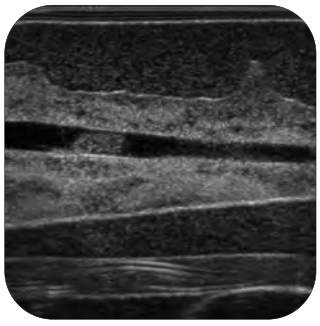
- Breast phantom
- 1 Carry Case

Packed weight (lb) & dimensions (in)	41.8 lb	22.4 l	17.3 w	11 h

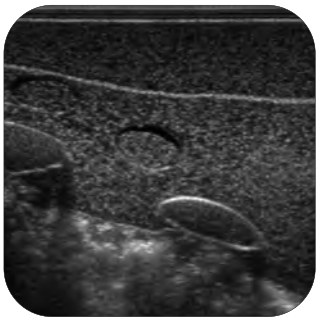
Cyst



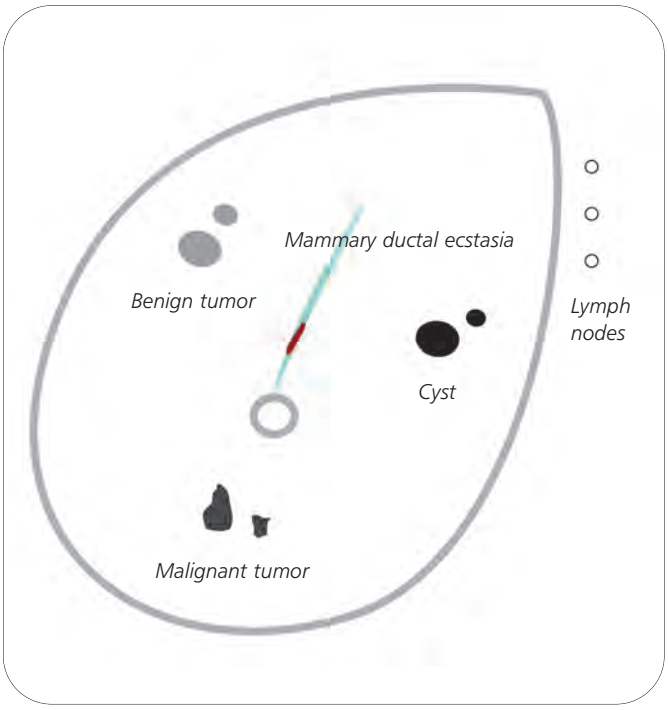
Malignant tumor



Mammary ductal ectasia



Lymph nodes



Embedded targets

KYOTO KAGAKU

ECHOZY Ultrasound Examination Training Model

Part No: **KKMUS-1 41900-999 with ECHO-ZOU internal organ anatomical model**

Part No: **KKMUS-1 41900-019 without ECHO-ZOU**

A diagnostic abdominal examination phantom for teaching and practicing ultrasound scanning, as well as offering a time-saving approach for anatomy teaching.

Skills

- Use of ultrasound technology
- Handling ultrasound transducers (probes)
- Recognition of abdominal organs

Features

- Advanced materials allow for life-like ultrasound imaging properties
- Structures and organs embedded:
  - chest bones
  - lungs (no internal structure)
  - heart (no internal structure)
  - liver
  - portal vein
  - bile duct
  - hepatic artery
  - gallbladder
  - pancreas
  - spleen
  - kidneys
  - abdominal aorta
  - inferior vena cava
  - hepatic veins
  - spinal column
  - stomach
- Aids understanding of the complex anatomy around the hepatic portal
- Eight Couinaud's segments of the liver can be recognized
- Life-size anatomical model is supplied for easy understanding of abdominal anatomy

Visit our website for more information

Find the product by typing the Part No into the search box

Sample ultrasound image: midsaggital plane showing stomach (upper middle) and spinal column (bottom)

Separate ECHO-ZOU anatomical model can be dismantled to show organs embedded within the phantom

Comprehensive package supplied

Package supplied

- 1 Ultrasound abdominal phantom
- 1 internal organ anatomical model ECHO-ZOU (optional)
- 1 set of positioning pillows
- 1 talcum powder
- 1 Carry case

Packed weight (lbs) & dimensions (in)	Depends upon the product supplied

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

ABDFAN Ultrasound Examination Training Model

Part No: **KKMUS-1B 41900-020 with ECHO-ZOU internal organ anatomical model**

Part No: **KKMUS-1B 41900-030 without ECHO-ZOU**

A high-fidelity phantom for teaching and practicing abdominal ultrasound scanning which includes simulated lesions embedded as targets to provide wider educational opportunities.

Skills

- Instrumentation and probe manipulation
- Basics of abdominal sonography
- Cross sections and sonographic anatomy
- Sonographic demonstration of each individual organ
- Localization of hepatic Couinaud's segments
- Lesion detection training

Features

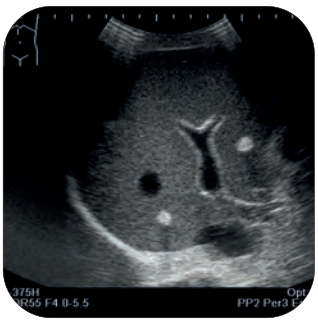
- Any ultrasound device with a convex probe can be used
- Various simulated lesions including biliary stones and cysts, solid tumors (hypoechoic, hyperechoic and target appearance) in the liver, pancreas, spleen and kidneys
- Detailed anatomy includes: liver (eight Couinaud's segments, portal and hepatic venous systems, ligamentum teres & ligamentum venosum), biliary tract (gallbladder, cystic duct, intrahepatic and extrahepatic bile ducts), pancreas (pancreatic duct), spleen, kidneys, and vascular structures (aorta, vena cava, celiac artery with branches, portal vein with branches, superior mesenteric vessels, renal vessels)
- Pathologies include: hepatic lesions (cystic & solid), gallbladder & bile duct stones, pancreatic tumors, splenic lesions, kidney lesions, and left adrenal tumor

Package supplied

- 1 Ultrasound phantom ABDFAN
- 1 Anatomical model ECHO-ZOU (optional)
- 1 set of positioning pillows
- 1 Talcum powder
- 1 Carry case

Packed weight (lbs) & dimensions (in)	Depends upon the product supplied

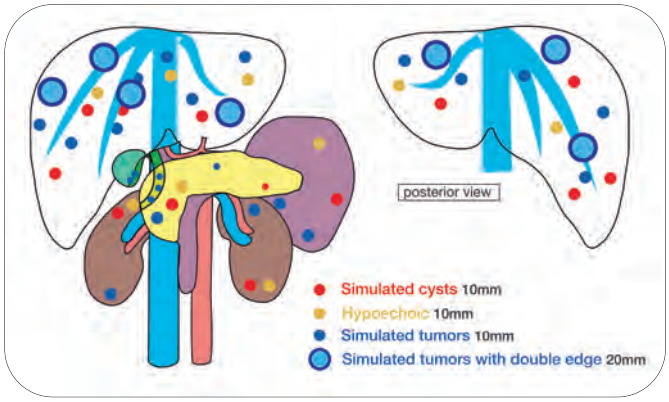
Right costal section



Right costal interspace section

Left costal interspace section

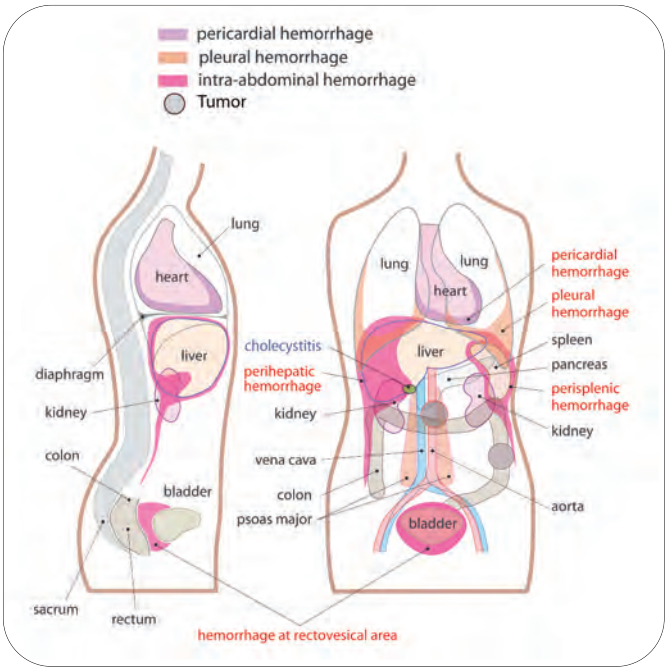
Axial section



Guide to simulated lesions in liver, pancreas, kidney, spleen, gallbladder

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.



FAST/ER FAN Ultrasound Examination Training Model

Part No: **KKMUS-5**

A high-fidelity phantom for training in FAST (Focused Assessment with Sonography for Trauma) ultrasound examination for identifying the presence of free intraperitoneal or pericardial fluid in trauma patients. This allows for the detection of possible causes of shock such as mass hemothorax, intraperitoneal hemorrhage or cardiac tamponade.

Skills

- FAST procedures
- Sonography for acute patients

Features

- For FAST procedures there are internal hemorrhages in the perihepatic, perisplenic, pelvis and pericardium areas
- For sonography for acute patients there are internal hemorrhages in the pericardial, bilateral chambers as well as intra-abdominal hemorrhages around the liver, the spleen and the bladder
- Pathologies include cholecystitis, an aortic aneurysm, and a lesion on the colon

Package supplied

- 1 Ultrasound phantom
- 1 Carry case

Packed weight (lb) & dimensions (in)	72.6 lb	30.3 l	17.3 w	14.6 h

Product details correct at time of going to press. Subject to change.

Abdominal aortic aneurysm

Pelvic bleeding

Peri-hepatic bleeding

Left upper abdominal bleeding

KYOTO KAGAKU

General Procedural Skills

Products designed for staged training in clinical procedures

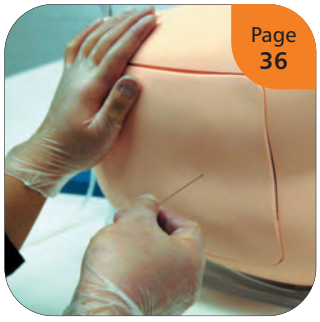
The challenge to develop the technical skills associated with clinical procedures, as well as the cognitive and communication skills that go with them is greater than ever before.

The Limbs & Things General Procedural Skills product ranges have been compiled to enable all civilian & military healthcare practitioners to not only develop their technical skills, but also to promote mastery in all elements of clinical and communication skills practice.

Popular products

Standard Venipuncture Arm

Injection Trainer

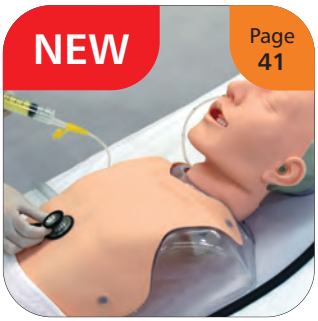


Lumbar Puncture & Epidural Simulator Mk 2

Advanced Cathterization Trainer

New products

Chest Drain & Needle Decompression Trainer



Tube Feeding Simulator

Products in this section

Resusci Anne	20
Chest Drain & Needle Decompression Trainer	21
Diagnostic Peritoneal Lavage (DPL) Trainer	22
Cutdown Pad	22
AirSim: Advance • Advance Bronchi	23
AirSim Advance: Crico • Traci • Combi	24
Cricoid Stick Trainer	25
Airway Suction Trainer	25
Arterial Puncture Wrist	26
Simulator Intravenous Arm II Set	27
Venipuncture Arms	28-29
ACF Pad - Venipuncture	30
Extended ACF Pad - Venipuncture	30
Mock Blood: Venous, Arterial	30
Three Vein Pad - Venipuncture	31
Injection Trainer	31
Mock Blood Giving Set	31
Ultrasound Vascular Access Trainer	32
IV Torso	32
Femoral Access Trainer	33
TPN/IVH Care Simulator	33
Peter PICC Line™	34
Chester Chest™	34
Ultrasound CVC Insertion Simulator Mk 2	35
Lumbar Puncture & Epidural Simulator Mk 2	36
Thoracic & Lumbar Epidural Anesthesia Simulator	37
Advanced Catheterization Trainers	38-39
Basic Catheterization Trainers - Value Set	39
Patient Care Simulator	40
NG Tube & Trach Care Trainer	41
Tube Feeding Simulator	41
Otto Ostomy™	42
Adult Bathing & Care Models: Female & Male	42

NEW

Resusci Anne

Torso Basic with Hard Case
Part No: **LD31000501**

Torso SkillGuide with Hard Case
Part No: **LD31001501**

Torso SkillReporter with Hard Case
Part No: **LD31002501**

Full-Body Basic with Hard Case
Part No: **LD31003501**

Full-Body SkillGuide with Hard Case
Part No: **LD31004501**

Full-Body SkillReporter with Hard Case
Part No: **LD31005501**

Resusci Anne offers optimal realism and quality to adult CPR education. With its modular construction, students can quickly sharpen their skills in performing adult CPR at its highest quality.

Basic Features

- Natural obstruction of the airway allows students to learn the important technique of opening the airway so that in a real-life situation they know how to effectively administer air to the victim
- Head tilt/chin lift and jaw thrust allows students to correctly practice airway maneuvers necessary when resuscitating a real victim
- Occluded airway with hyperextension stresses proper head position
- Realistic resistance for chest compressions allows the students to experience the amount of pressure needed to perform proper chest compressions in a real life situation
- Anatomically correct landmarks and sternal notch allow the students to practice identification of all anatomical landmarks relevant to adult CPR
- Carotid pulse simulation to realistically check for pulse
- Disposable non-rebreathing airways are suitable for use by more than one student during class and are quick and easy to change after each training session
- Removable/reusable faces allow each student to have their own mouth-to-mouth face and offers easy after class cleaning and sanitation

SkillGuide

SkillReporter

SkillGuide Features

- SkillGuide CPR performance module provides immediate objective feedback to the instructor and student on ventilation duration and volume, and compression depth using a color light display

SkillReporter Features

- SkillReporter CPR performance module provides immediate objective feedback on ventilation duration and volume, compression depth, and hand position, and allows a comprehensive printed report for student performance documentation and debriefing

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Chest Drain & Needle Decompression Trainer

Part No: **60230**

This brand new Limbs & Things simulator has been designed to meet the specific requirements of healthcare professionals training in surgical or guidewire assisted thoracostomy and thoracentesis. This product, complete with interchangeable modules, allows for a variety of chest drain insertion techniques to be performed including ultrasound-guided techniques.

Skills

- Needle decompression of tension pneumothorax
- Ultrasound-guided chest drain insertion (Seldinger-type), including insertion of needle under direct vision, and ultrasonic recognition of chest structures
- Open, or cut-down chest drain insertion: recognition of correct position, surgical incision, blunt dissection through chest wall, perforation of pleura, and finger sweep
- Suture of tube to chest wall

Features

- Representation of adult male thorax with arms raised
- Suitable for supine, sitting, or leaning forwards positions
- Bony and soft tissue landmarks: manubriosternal joint, clavicles, ribs, pectoralis major and latissimus dorsi
- Bilateral chest drain and needle decompression pads
- Internal ultrasound anatomy: diaphragmatic structures and collapsed lung
- Reservoirs can be filled with fluid or mock blood to represent pleural effusion
- Needle decompression air reservoirs provide realistic release of air on insertion of needle
- Affordable replaceable pads

Package supplied

- 1 **Needle Decompression Pads (Pack of 2)** Part No: **60231**
- 1 **Advanced Chest Drain Pads (Pack of 2)** Part No: **60232**
- 1 **Standard Chest Drain Pads (Pack of 2)** Part No: **60234**
- 1 **Chest Drain Ribs (Pack of 12)** Part No: **60240**
- 1 Torso
- 1 Carry case

Chest drain pad and frame removed showing lung and diaphragmatic structure

Recognition of pleural effusion and ultrasonic landmarks: chest wall, lung and diaphragmatic structure

Ultrasound guided needle insertion (Seldinger type)

Standard Chest Drain Pads (Pack of 2)

Advanced Chest Drain Pads (Pack of 2)

Diagnostic Peritoneal Lavage (DPL) Trainer

Part No: **60290**

This model caters for the emergency procedure of diagnostic peritoneal lavage which is an integral part of the ATLS courses and medical military field training.

Skills
- Incision through the abdominal wall
- Introduction of instruments
- Flushing of abdominal cavity

Features
- Soft tissue abdominal wall
- Fluid Retention Tray allows fluid to be contained within abdominal cavity (main picture)
- Mock blood (supplied) can be introduced into the Fluid Retention Tray to simulate abdominal trauma
- Includes perineum
- Skin surface is washable using soap and water

Package supplied
- 1 **Perineum** Part No: **50104**
- 1 **DPL Abdominal Wall** Part No: **60263**
- 1 **DPL Fluid Retention Tray** Part No: **60250**
- 1 **Mock Blood - Venous (250ml)** Part No: **00223**
- 1 DPL base

Packed weight (lbs) & dimensions (in)	9.3 lb	7.1 l	12.2 w	18.1 h

Cutdown Pad

Part No: **00280**

A multi-layered pad containing filled veins used for practicing the cutdown procedure.

Skills
- Palpation to locate vein position
- Incising tissue layers
- Inserting a cannula
- Vein injection both distally and proximally
- Tying off veins

Features
- Layers simulate the epidermis and subdermal layers
- Three straight veins (each 150mm long) filled with mock blood
- The pad can be connected to the **Mock Blood Giving Set** Part No: **60651** to simulate blood flow. Only use **Mock Blood - Venous (250ml)** Part No: **00223**
- Latex free

Package supplied
- 1 Cutdown Pad

Note
It is recommended that the vein is tied off each time, so that the next trainee can continue to use that vein, and it remains fluid filled.

Packed weight (lbs) & dimensions (in)	0.2 lb	0.4 l	5.9 w	9.8 h

AirSim Advance

Part No: **TCAA91100**

with Breakout Teeth

Part No: **TCAA91101**

The addition of a 'real-feel' skin covering provides a more realistic bag & mask ventilation training experience and an improved neck design allows for accurate articulation.

Skills

- Training in/use of:
  - bag & mask ventilation
  - full range of supraglottic devices
  - video laryngoscopy
  - standard laryngoscopy
  - tracheal intubation
  - naso-tracheal intubation
  - awake fiberoptic examination

Package supplied

- 1 AirSim Advance model
- 1 user manual CD
- 1 lung bag
- 1 Carry case

Packed weight (lbs) & dimensions (in)	7.7 lb	18.1 l	10.2 w	13 h

AirSim Advance Bronchi

Part No: **TCAA95100**

with Breakout Teeth

Part No: **TCAA95101**

The AirSim Bronchi provides the same benefits as the AirSim Advance with the added benefit of anatomically correct bronchial detail down to the fourth generation bronchi.

Skills

- Training in/use of:
  - diagnostic bronchoscopy
  - lung isolation techniques using left and right endobronchial tubes and bronchial blockers
  - lung suctioning techniques
  - fiberoptic bronchoscopy
  - single and double lumen tubes and bronchial blockers
  - bronchial stent insertion

Package supplied

- 1 AirSim Advance model
- 1 user manual CD
- 1 Carry case

Packed weight (lbs) & dimensions (in)	8.6 lb	18.1 l	10.2 w	13 h

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Extent of bronchial tree

Internal view of bronchi

AirSim Advance Crico

Part No: **TCCR91100**

with Breakout Teeth
Part No: **TCCR91101**

with Bronchial Tree
Part No: **TCCR95100**

with Breakout Teeth & Bronchial Tree
Part No: **TCCR95101**

The AirSim Advance Crico combines all of the features of the AirSim Advance with the addition of a simulated cricoid cartilage to facilitate training in both needle and surgical cricothyroidotomy procedures.

Skills

- Training in/use of:
  - needle and surgical cricothyroidotomy
  - awake fiberoptic examination
  - tracheal and nasotracheal intubation
  - video and standard laryngoscopy including Sellick Maneuver
  - full range of supraglottic devices
  - bag & mask ventilation

Package supplied

- 1 AirSim Advance model
- 1 user manual CD
- 1 Carry case

Packed weight (lb) & dimensions (in)								
7.7	lb	18.1	l	10.2	w	13	h

AirSim Advance Traci

Part No: **TCTT91100**

with Breakout Teeth
Part No: **TCTT91101**

with Bronchial Tree
Part No: **TCTT95100**

with Breakout Teeth & Bronchial Tree
Part No: **TCTT95101**

The AirSim Advance Traci combines all of the features of the AirSim Advance with the addition of anatomically correct laryngeal cartilages & palpable tracheal rings that are designed to enhance training in percutaneous tracheotomy.

Features

- Anatomically correct laryngeal cartilages
- Palpable tracheal rings to provide positive user feedback
- Easy identification of the sternal notch
- Realistic neck skin with the option of subcutaneous fat tissue

Skills

- Training in/use of:
  - percutaneous tracheostomy
  - needle and surgical cricothyroidotomy
  - awake fiberoptic examination
  - tracheal and nasotracheal intubation
  - video and standard laryngoscopy including Sellick Maneuver
  - full range of supraglottic devices
  - bag & mask ventilation

Package supplied

- 1 AirSim Advance model
- 1 user manual CD
- 1 Carry case

Packed weight (lb) & dimensions (in)								
7.7	lb	18.1	l	10.2	w	13	h

AirSim Advance Combi

Part No: **TCCTC91100**

with Breakout Teeth
Part No: **TCCTC91101**

with Bronchial Tree
Part No: **TCCTC95100**

with Breakout Teeth & Bronchial Tree
Part No: **TCCTC95101**

The AirSim Advance Combi brings together the outstanding features of our existing products to produce the perfect all-in-one trainer for your airway management course. It allows for training in both cricothyroidotomy & percutaneous tracheotomy.

Skills

- Training in/use of:
  - diagnostic bronchoscopy
  - lung isolation techniques using left and right endobroncial tubes nad bronchial blockers
  - full range of supraglottic devices
  - bag & mask ventilation
  - lung suctioning techniques
  - needle and surgical cricothyroidotomy
  - percutaneous tracheostomy

Package supplied

- 1 AirSim Advance model
- 1 user manual CD
- 1 Carry case

Packed weight (lb) & dimensions (in)								
7.7	lb	18.1	l	10.2	w	13	h

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true anatomy
true training
true to life

AIRSIM

Cricoid Stick Trainer

Part No: **LD261-01001**

Needle and surgical cricothyrotomy skills can be practiced on this trainer.

Skills
- Needle cricothyrotomy
- Surgical cricothyrotomy

Features
- Anatomically accurate landmarks for site training
- Interchangeable tracheas facilitate realistic simulation of cricothyrotomy procedures
- Self-repairing neck skin allows for repeated practice
- Trainer is designed to fit with a range of adult mannequins

Package supplied
- 1 **Replaceable Trachea - Rigid** Part No: **LD261-01150**
- 1 **Replaceable Trachea - Soft** Part No: **LD261-01250**
- 1 **Replacement Neck Skin** Part No: **LD261-01350**
- 1 Cricoid stick head
- 1 Balloon lung
- 1 Retaining band
- 1 Base
- 1 Carry case

Packed weight (lbs) & dimensions (in)	12 lb	14.96 l	14.96 w	10.0 h

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Airway Suction Trainer

Part No: **KKM85**

Realistic representation of the respiratory organs for teaching catheterization and temporary airway suction.

Skills
- Insertion of catheters orally, nasally or through the tracheostomy opening
- Temporary airway suction
- Tracheostomy care, replacement and management

Features
- Realistic anatomy including mouth, tongue, oral and nasal pharynx, larynx, epiglottis, vocal cords, trachea and esophagus
- Incorporates an observation window to allow the passage of the catheter to be demonstrated and explained, and so trainees' technique can be assessed
- Sticky simulated sputum material can be introduced into the bronchus
- Trachea and bronchus can be easily flushed clean after use

Package supplied
- 1 Face & neck skin, base with internal anatomy
- 1 Can of spray lubricant
- 2 Catheters
- 1 Trainer Q Synthetic Sputum
- 1 Metal tray

Packed weight (lbs) & dimensions (in)	15.4 lb	3.9 l	11.8 w	19.7 h

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Arterial Puncture Wrist

Part No: **KKM99**

Radial artery puncture is a common approach for blood collection and artery catheterization, and this simulator provides realistic training in this skill.

Skills
- Palpation of radial artery
- Needle insertion
- Blood collection

Features
- Arterial pulse is palpable
- Speed of pulse is variable
- Soft tissue and artery wall provide realistic needle resistance
- 'Flash back' can be observed
- Skin, pad and artery tube are replaceable
- Puncture sites not visible after use
- One-touch, leak free connectors
- Easy clean up

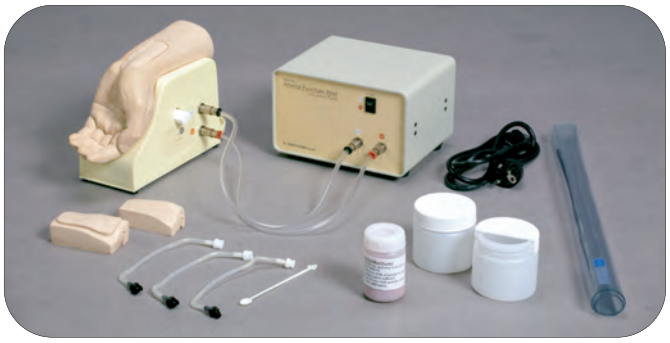
Package supplied
- 2 **Skin Sets (Inner & Outer)** Part No: **KK11351-010**
- 1 **Silicon Tape (Set of 4)** Part No: **KK11351-030**
- 1 **Artery Tubes (Set of 4)** Part No: **KK11351-040**
- 1 Wrist and hand model with circulation pump
- 1 Jar of blood powder with beaker & spoon
- 2 Plastic jars
- 2 Connection tubes
- 1 Vinyl sheet
- 1 Carry case

Palpation

Needle preparation

Insertion

Removal



Packed weight (lb) & dimensions (in)			
30.9 lb	19.7 l	11.8 w	27.6 h

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Simulator Intravenous Arm II Set

Part No: **KKM50B**

A complete set of state-of-art IV simulators for blood collection, intravenous injection and drip infusion. Puncturable models are designed to allow training in real clinical settings, with delicate needle-tip resistance and 'flash-back' confirmation. The modular design and easily replaceable parts reduce the total cost of ownership.

Package supplied

Arm II

Hand

Pediatric IV Hand

Circulation pump

Skills

- Blood collection
- Intravenous injection
- Drip infusion

Features

Arm II

- Improved injection pad allows more repetitive training
- Three venous lines at the cubital fossa (basilic, median and cephalic) can be palpated
- Life-like touch and resistance of the injection sites allows vein palpation like a real patient
- Realistic needle-tip resistance of vein walls
- Flash back confirmation
- Allows for blood collection, injection and drip infusion

Hand

- The fingers and back of the hand are flexible and can be gripped or pulled as in real procedures
- Three puncture sites are accessible on the back of the hand
- Injection part is easily exchangeable
- Angle adjustable swivel stand supports the hand model at proper position
- Allows for blood collection, injection and drip infusion

Pediatric IV Hand

- Higher skills are required to puncture and to perform IV procedures safely in small infant hands which have thin, soft, difficult-to-find veins
- This simulator is an effective tool providing hands-on training with life-like reality
- The fingers and the back of the hand are flexible to be gripped or pulled as in real procedures
- Two puncture sites on the back of the hand are accessible
- Needle fixing procedure can be practiced

Package supplied

- 1 arm model with supporter stand
- 2 injection pad for arm model
- 1 hand model for M91 with supporter stand
- 1 one-year-old arm-hand for M95 with supporter stand
- 1 three-year-old arm-hand for M95 with supporter stand
- 1 circulation pump
- 1 jar of coloring powder (red)
- 1 set of spoon and plastic jar

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Venipuncture Arms

Skills for both Arms
- Venipuncture
- IV Cannulation
- IV Infusion

Features for both Arms
- Skins are durable
- Veins last for up to 500 insertions of 21g needle
- Blood has been reformulated to improve leak resistance of veins. Now ships as a concentrated liquid to save you money and storage space
- Arm allows for digital pressure to stem blood flow
- Infusion Tube allows for volume IV fluids to be administered
- Veins are easy to replace
- Can be used with vacuum blood collection systems, needle & syringe, and IV cannulas
- Realistic blood flashback
- Realistic, soft, flexible skin and underlying palpable veins
- Easy to clean, service and maintain
- Can be used for hybrid simulation with simulated patients, and for professional -to-patient communication (role play), when using the optional Venipuncture Arm Harness (shown opposite)

Bag & Stand Mock Blood Supply
- Allows for quick setup and refilling
- Easy-to-use: quick setup for the simulation technician with a large volume of blood to ensure adequate blood pressure levels for "flashback" for the large student groups

Pressurized Mock Blood Supply
- Realistic blood flashback from pressurized fluid system
- 'Closed' blood flow system with no messy bottles to change
- Pressure of blood can be easily adjusted
- Veins are leak resistant when used at the correct pressure

Feature comparison:	Standard	Advanced
Veins:		
- cephalic & basilic	•	•
- median cubital	-	•
- dorsal metacarpals	2	4
Digital pressure to stem blood flow	•	•
Use with:		
- vacuum blood collection systems	•	•
- needle & syringe	•	•
- IV cannulas	•	•
Realistic blood flashback	•	•
Volume IV infusion	•	•
Hybrid simulation using the Arm Harness	•	•

Accessories for Venipuncture Arms:
Venipuncture Arm Harness Part No: **00300**
Venipuncture Arm Carry Case Part No: **00301**

Standard Venipuncture Arm

Light Part No: **00330**
Brown Part No: **00331**
Black Part No: **00332**

The SV Arm is ideal for a clinical skills training environment where large numbers of trainees are practicing this skill on a regular basis. Little technical knowledge is required for setup and maintenance, making this product perfect for students to use during self-directed learning time in a skills laboratory.

Package supplied
- 1 **Venipuncture Arm Skin**
- 1 **SV Arm Vein** Part No: **00333**
- 1 **SV Vein Module** Part No: **00334**
- 1 **Bag & Stand Venipuncture Arm Mock Blood Supply** Part No: **00336**
- 1 **Concentrated Venous Blood - Starter Pack** Part No: **00020**
- 1 **Venipuncture Arm Infusion Tube** Part No: **00335**
- 1 **Venipuncture Arm Rest** Part No: **00302**
- 3 sachets water-based lubricant
- 1 arm shell

Packed weight (lb) & dimensions (in)	13.5 lb	39.7 l	7.48 w	11.4 h

Advanced Venipuncture Arm hand veins

Standard Venipuncture Arm hand veins

Bag & Stand Advanced Venipuncture Arm

Light Part No: **00440**
Brown Part No: **00441**
Black Part No: **00442**

This product combines the benefits of the Advanced Venipuncture Arm with the simplicity of the Bag & Stand Mock Blood Supply.

Package supplied

- 1 **Venipuncture Arm Skin**
- 1 **AV Arm Vein** Part No: **00292**
- 1 **AV Vein Module** Part No: **00295**
- 1 **Bag & Stand Venipuncture Arm Mock Blood Supply** Part No: **00336**
- 1 **Concentrated Venous Blood - Starter Pack** Part No: **00020**
- 1 **Venipuncture Arm Infusion Tube** Part No: **00335**
- 1 **Venipuncture Arm Rest** Part No: **00302**
- 3 sachets water-based lubricant
- 1 arm shell

Packed weight (lb) & dimensions (in)	13.5 lb	39.7 l	7.48 w	11.4 h

Advanced Venipuncture Arm

Light Part No: **00290**
Brown Part No: **00298**
Black Part No: **00296**

This product provides the ideal platform for all healthcare trainees who need to practice the skills related to venipuncture and IV cannulation. This product addresses the fundamental needs of clinical skills tutors, trainees and technicians alike.

Package supplied

- 1 **Venipuncture Arm Skin**
- 1 **AV Arm Vein** Part No: **00292**
- 1 **AV Vein Module** Part No: **00295**
- 1 **Concentrated Venous Blood - Starter Pack** Part No: **00020**
- 1 **Venipuncture Arm Infusion Tube** Part No: **00335**
- 1 **Venipuncture Arm Rest** Part No: **00302**
- 1 **Refill Bottle** Part No: **00303**
- 1 **Pressurized Venipuncture Arm Mock Blood Supply** Part No: **00337**
- 3 sachets water-based lubricant
- 1 arm shell

Packed weight (lb) & dimensions (in)	4.25 lb	39.7 l	7.48 w	11.4 h

Vacuum blood collection systems to be used

Needle and syringe to be used

Skin to be stretched to 'anchor' veins for easier cannula insertion

Digital pressure to be applied to stem blood flow

ACF Pad - Venipuncture

Part No: **00140**

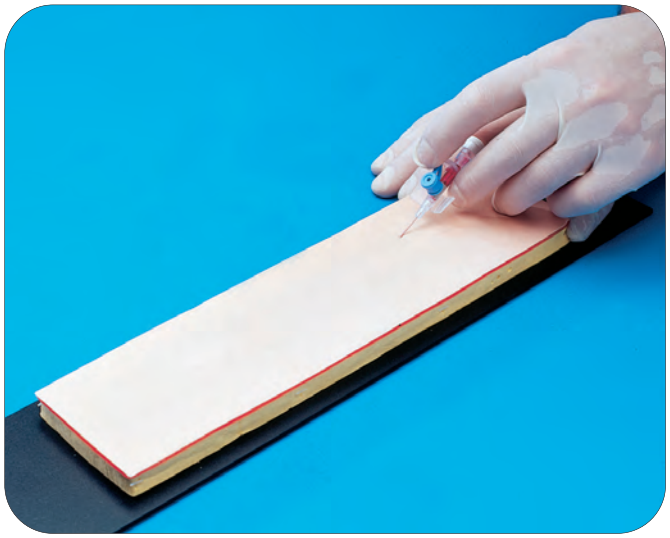
A soft tissue strap-on pad for use in venipuncture which represents the antecubital fossa of the right arm.

Skills
- Professional-to-patient communication
- Recognition of the vein pattern through palpation
- Insertion of a needle
- Introduction of a cannula
- Management of blood flow

Features
- Strap onto the antecubital fossa of the arm
- Veins are: self-sealing for repeated use, rechargeable via a one-way valve, supplied with mock blood under pressure, and replaceable
- The pad can be connected to the **Mock Blood Giving Set** Part No: **60651** to simulate blood flow. Only use **Mock Blood - Venous (250ml)** Part No: **00223** (page 31)
- Tough backing plate to prevent needle stick injuries
- Replaceable epidermis is washable using soap and water if Limbs & Things mock blood is used

Package supplied
- 1 **Vein for ACF Pad** Part No: **00180**
- 1 **Epidermis for ACF Pad** Part No: **00170**
- 1 Pad base with strap

Packed weight (lbs) & dimensions (in)	0.4 lb	0.8 l	4.7 w	16.5 h



Extended ACF Pad - Venipuncture

Part No: **00211**

A soft tissue pad representing the antecubital fossa of the right arm, for use in venipuncture and the introduction of cannula.

Skills
- Recognition of the vein pattern through palpation
- Insertion of a needle
- Introduction of a cannula and use of micropore
- Management of blood flow

Features
- Designed for the introduction of cannula up to 15cms distally and proximally
- Veins are: self-sealing for repeated use, rechargeable through the cannula, and filled with mock blood at 'flash back' pressure
- The pad can be connected to the **Mock Blood Giving Set** Part No: **60651** to simulate blood flow. Only use **Mock Blood - Venous (250ml)** Part No: **00223** (page 31)
- Supplied on a non-slip backing plate
- Epidermis is washable using soap and water if Limbs & Things mock blood is used
- Latex free

Package supplied
- 1 Extended ACF Pad

Packed weight (lbs) & dimensions (in)	0.5 lb	16.5 l	3.9 w	0.8 h

Mock Blood - Arterial

Part No: **60653**

A 250ml bottle of synthetic solution made to the correct color and viscosity of arterial blood.

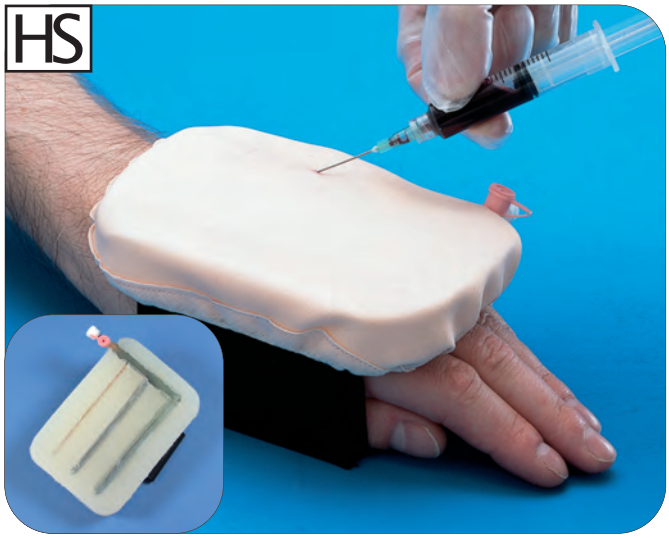
Packed weight (lbs) & dimensions (in)	0.7 lb	8.0 l	7.0 w	3.0 h

Mock Blood - Venous

Part No: **00223**

A 250ml bottle of synthetic solution made to the correct color and viscosity of venous blood.

Packed weight (lbs) & dimensions (in)	0.7 lb	8.0 l	7.0 w	3.0 h



Three Vein Pad - Venipuncture

Part No: **00161**

A soft tissue strap-on pad featuring 3 straight veins, one of which is pediatric size.

Skills
- Professional-to-patient communication
- Insertion of a needle
- Introduction of a cannula
- Management of blood flow

Features
- Strap onto the arm or back of the hand
- Lumen sizes of veins (1 of each): 1mm, 4mm, 6mm
- Veins are: self-sealing for repeated use, rechargeable via a one-way valve, supplied with mock blood under pressure, and replaceable
- The pad can be connected to the **Mock Blood Giving Set** Part No: **60651** to simulate blood flow. Only use **Mock Blood - Venous (250ml)** Part No: **00223** (page 31)
- Tough backing plate to prevent needle stick injuries
- Replaceable epidermis is washable using soap and water if Limbs & Things mock blood is used

Package supplied
- 1 **Vein for Three Vein Pad** Part No: **00213**
- 1 **Epidermis for Three Vein Pad** Part No: **00200**
- 1 Pad base with strap

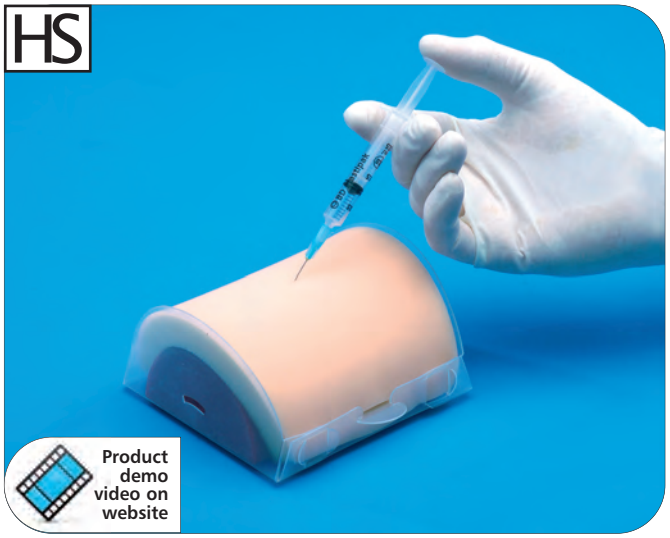
Packed weight (lbs) & dimensions (in)	0.5 lb	5.9 l	4.5 w	2.4 h

Mock Blood Giving Set

Part No: **60651**

A 1 liter blood bag with luer lock connector tube and stand.

Packed weight (lbs) & dimensions (in)	2.9 lb	11.0 l	11.0 w	5.1 h



Injection Trainer

Part No: **00310**

Multi-layered soft tissue pad for the practice of intradermal, subcutaneous, and intramuscular tissue injection techniques.

Skills
- Professional-to-patient communication
- Subcutaneous injection
- Intradermal injection
- Intramuscular injection
- Management of tissue

Features
- Latex free
- Multiple tissue layers: epidermis, dermis, fat & muscle
- Epidermis layer may be peeled back, to release the subcuticular injection liquid, and replaced in seconds
- Liquid injected into the intramuscular pad can be squeezed out
- Long-lasting replaceable epidermis
- Trainer is easy to assemble and disassemble
- Trainer can be strapped to a simulated/standardized patient for hybrid simulation training scenarios (see picture below)

Package supplied
- 1 **Skin Pad & Muscle Block** Part No: **00311**
- 1 **Epidermis for Injection Trainer (Pack of 2)** Part No: **00320**
- 1 Strap-on base plate
- 1 Soft tissue tray with liner

Packed weight (lbs) & dimensions (in)	1.3 lb	4.3 l	6.3 w	8.3 h

Injection Trainer strapped onto thigh for hybrid simulation training

Ultrasound Vascular Access Trainer

Part No: **60530**

An echolucent and contoured slab incorporating a representation of the jugular vein for teaching needle insertion under ultrasound.

Skills

- Use of ultrasound technology
- Handling ultrasound transducers
- Insertion of needles under ultrasound guidance
- Handling and management of guidelines and catheters under ultrasound
- Recognition of vessels using ultrasound

Features

- New echolucent material provides realistic ultrasound image
- Fluid volume and pressure can be changed in the vessel to represent variability in patient circulation, providing various levels of difficulty for needle insertion
- Vein is:
  - self sealing for repeated use
  - rechargeable with water via a one-way valve
- Designed to be used on the bench top
- Is supplied on a robust non-slip base for safe usage

Package supplied

- 1 **Ultrasound Vascular Access Slab** Part No: **60531**
- 1 Base
- 1 10ml syringe

Packed weight (lbs) & dimensions (in)	1.9 lb	3.1 l	4.7 w	8.3 h

IV Torso

Part No: **LD090019**

The IV Torso allows for the practice of intravenous access techniques for both advanced cardiac life support and trauma.

Skills

- Cannulation and catheterization using appropriate techniques
- Enables the practice of IV access to the:
  - external jugular vein
  - internal jugular vein via the anterior, central and posterior approaches
  - subclavian vein
  - femoral vein

Features

- IV access areas are pads with realistic tissue simulation
- Prefilled veins inside the pads provide natural resistance during puncture and natural flashback of blood
- Invisible puncture sites: veins and skin are self sealing
- A pulse bulb enables the instructor to create a palpable pulse in the mannequin's arteries

Package supplied

- 1 **Neck Replacement Pad** Part No: **LD092001**
- 1 **Femoral Replacement Pad** Part No: **LD092003**
- 1 **IV Pulse Tube Set** Part No: **LD092012**
- 1 **Simulated Blood (250ml)** Part No: **LD092103**
- 1 Hard carry case

Packed weight (lbs) & dimensions (in)	12.26 lb	35.4 l	12.6 w	20 h

Laerdal
helping save lives

Femoral Access Trainer

Part No: **LD262-00001**

An adult lower torso with realistic anatomical landmarks and infusible venous and arterial systems designed for teaching femoral access procedures.

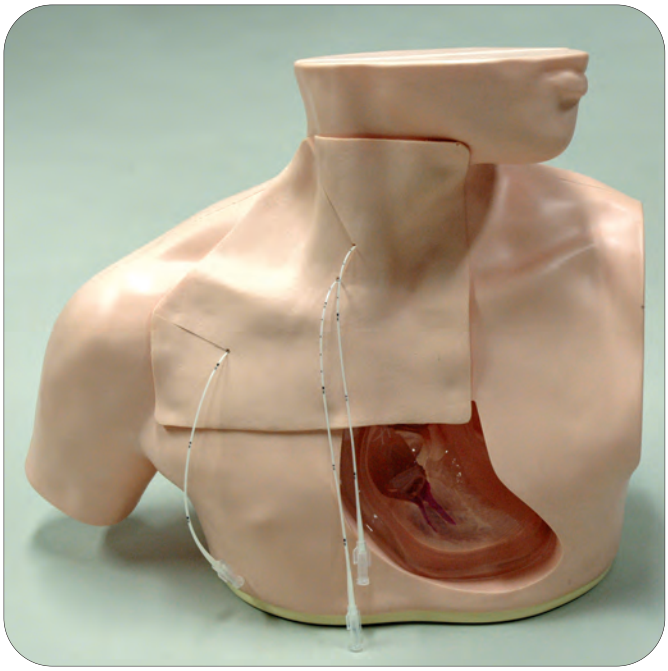
Skills
- Femoral access procedures

Features
- Realistic palpable landmarks:
  - pubic symphysis
  - inguinal ligament
  - anterior superior iliac spine
- Manually generated arterial pulse
- Blood flashback from venous and arterial systems

Package supplied
- 3 **IV Bags with Hoses and Clamps** Part No: **LD262-00550**
- 1 **Simulated Blood - 1 Blue (4oz)** Part No: **LD262-00150**
- 1 **Simulated Blood - 1 Red (4oz)** Part No: **LD300-00750**
- 1 Lower torso
- 5 Syringes
- 1 Mannequin lubricant
- 1 Carry case
- 1 User Manual

Packed weight (lbs) & dimensions (in)	18 lb	40.2 l	16.2 w	12.0 h

Laerdal helping save lives



TPN/IVH Care Simulator

Part No: **KKM97**

An invaluable teaching aid for explaining central venous catheterization and the proper care of patients receiving Total Parenteral Nutrition (TPN) and Intravenous Hyperalimentation (IVH). It can also be used for patient education.

Skills
- Care of catheter sites including bandaging and dressing
- Fixing and care of feeding tubes
- Management of tubes, skin sterilization procedure and aseptic techniques
- Understanding of relevant anatomy and the path of the central venous catheter

Features
- Life-sized upper torso and neck section
- Includes transparent removable anatomical section showing the structure of the clavicle, sternum, ribs, veins, arteries, heart and upper lungs
- Demonstrates the path of catheters from three approaches: subclavian vein, internal jugular vein and supra clavicular
- Heart model can be opened up to show the location of the tricuspid valve

Package supplied
- 1 Male upper torso & neck
- 1 Neck & breast skin
- 1 Transparent anatomical model
- 1 Head supporter

Packed weight (lbs) & dimensions (in)	11.0 lb	19.3 l	19.3 w	11.4 h

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Product details correct at time of going to press. Subject to change.

Peter PICC Line™

Part No: **VT0600**

Designed for practicing insertion, care, and removal of peripherally inserted central catheter (PICC) lines.

Skills
- Identification of underlying veins
- Standard IV catheter placement
- Placement and removal of PICC line
- Fluid infusion and withdrawal

Features
- Chin can be positioned to simulate occlusion of jugular
- Anatomically correct cephalic, basilic, and median basilic veins, jugular, subclavian, and superior vena cava
- Palpable ribs allow measurement of proper catheter length externally
- Replaceable translucent arm skin allows visualization of veins
- For more information visit www.limbsandthings.com

Package supplied
- 1 **Arm Vein Tubing Set** Part No: **VT0601**
- 1 **Body Vein Tubing Set** Part No: **VT0602**
- 1 **Arm Skin** Part No: **VT0603**
- 1 **Body Skin** Part No: **V0604**
- 1 **Rib** Part No: **VT0606**
- 1 **Muscle Tissue** Part No: **VT0607**
- 1 **Superior Vena Cava Viewing Vial** Part No: **VT0608**
- 1 **Large Simulated Blood Reservoir Bag** Part No: **VT0609**
- 1 Carry case

Packed weight (lbs) & dimensions (in)	12.0 lb	24.0 l	19.0 w	8.0 h

VATA
Anatomical Healthcare Models

Chester Chest™ with New Advanced Arm

Light Skin Part No: **VT2400**

Dark Skin Part No: **VT2402**

Designed for the insertion, care, and removal of common long-term vascular access routes. This product has the additional feature of a pre-positioned 20g IV catheter in the forearm.

Skills
- Placement of peripheral port
- Fluid infusion and withdrawal
- Application of dressings and securement devices

Features
- Chest has a real implanted vascular access device (IVAD) in it
- Prepositioned surgically implanted CVC and PICC line
- External jugular and subclavian catheters can be added
- 3 difficult access inserts are supplied simulating the following port placements: 'tipping', 'wandering' and deeply placed
- For more information visit www.limbsandthings.com

Package supplied
- 1 **Real Chest Port (IVAD)** Part No: **VT0406**
- 1 **Dual Lumen 5FR PICC Catheter** Part No: **VT0408**
- 1 **9.6FR Tunneled Central Catheter** Part No: **VT0409**
- 1 **Chest Tissue Flap** Part No: **VT0405**
- 3 **Difficult Access Inserts** Part No: **VT0420/0430/0440**
- 1 Torso with detachable Advanced Arm
- 1 Blood reservoir bags in the torso and arm
- 1 Base

Packed weight (lbs) & dimensions (in)	10.0 lb	24.0 l	16.0 w	6.0 h

VATA
Anatomical Healthcare Models

Top: Internal jugular approach
Middle: Subclavian approach
Bottom: Supraclavicular approach

Top: Axillary approach
Middle: Guide wire insertion
Bottom: Package supplied

KYOTO KAGAKU

Ultrasound CVC Insertion Simulator Mk 2

Part No: **KKM93-UB**

A realistic model for teaching and learning the anatomy, cannula approaches and the insertion of central venous catheters into the superior vena cava, with and without ultrasound guidance.

Skills

- Identification of key landmarks, including the clavicle, sternocleidomastoid muscle and the internal carotid artery
- Navigation of needle under ultrasound and recognition of correct vessels
- Location of 3 approaches for catheter insertion:
  - subclavian vein
  - supraclavicular
  - internal jugular vein
- Cannulation of the subclavian and internal jugular veins
- Insertion of catheters into the superior vena cava
- Avoiding and managing complications

Features

- Life-sized anatomically accurate upper torso and neck section relevant to the procedure
- 3 interchangeable blocks:
  - landmark pad for palpation and puncturing
  - ultrasound pad for guided catheter insertion into internal jugular vein
  - transparent anatomical pad for cannulation practice
- Palpable internal carotid artery
- Correct cannula placement into the vein allows blood to be collected in the syringe
- Incorrect cannula placement provides feedback:
  - entering the lung: air is collected in the syringe
  - piercing an artery: simulated artery blood is collected in the syringe
- Correct placement of the catheter into the upper main vein can be observed through a window. Incorrect placement into the left subclavian vein can also be identified

Package supplied

- 1 **Landmark Puncture Pad** Part No: **KK11347-119**
- 1 **CVC Mk 2 Ultrasound Puncture Pad** Part No: **KK11347-170**
- 1 **Introductory Ultrasound Training Block** Part No: **KK11347-210**
- 1 Male upper torso mannequin
- 1 Transparent anatomical block
- 1 Skin for cannulation training
- 1 Red & 1 blue jar of coloring powder
- 1 Air bulb
- 2 Plastic jars
- 1 Irrigation bottle
- 1 Syringe
- 1 Sample CVC catheter

Packed weight (lbs) & dimensions (in)	30.9 lb	19.7 l	11.8 w	27.6 h

Product details correct at time of going to press. Subject to change.

Lumbar Puncture & Epidural Simulator Mk 2

Part No: **KKM43B**

Designed to teach the lumbar puncture and epidural procedures, allowing hands-on training without the need for patient contact.

Visit our website for more information

Find the product by typing the Part No into the search box

Skills

- Patient position management
- Skin preparation
- Palpation of pelvic landmarks
- Palpation of lumbar spinous process
- Needle positioning and insertion
- Collection of cerebrospinal fluid (CSF)
- CSF pressure measurement
- Epidural

Needle insertion

Puncture Block and Support simply slide out for quick and easy replacement

Features

- Variations of puncture pads: epidural, elderly and obese
- 3 different support bases for lateral and sitting positions, and team teaching
- Lifelike lower torso
- Realistic tissue resistance
- Puncture sites not visible on skin
- Skin is quick and easy to remove using magnetic clips
- Puncture Block is transparent to allow viewing of the vertebrae (L2-L5) and the associated puncture sites
- Puncture Block is quick and easy to replace
- Each vertebral space can be punctured up to 30 times
- Easy maintenance: wipe dry material used for all parts
- Separate articulated Lumbar Spine model (L2-L5) is supplied to aid anatomical understanding
- A comprehensive guide to the relevant anatomy, physiology, indications and performance of the lumbar puncture procedure is included
- A guide to CSF fluid analysis and lumbar puncture risk management is included

Package supplied

- 1 **Replacement Skin** Part No: **KK11348-150**
- 2 **Puncture Block - Normal** Part No: **KK11348-090**
- 1 **Puncture Block - Obese** Part No: **KK11348-110**
- 1 **Puncture Block - Senior** Part No: **KK11348-120**
- 1 **Puncture Block - Senior Obese** Part No: **KK11348-130**
- 1 **Puncture Block - Epidural** Part No: **KK11348-140**
- 1 **Lumbar Spine Anatomical Model** Part No: **KK11348-060**
- 1 puncture block support
- 1 lower torso with 3 support bases
- 1 reservoir stand and bag
- 1 syringe

Packed weight (lbs) & dimensions (in)	31.5 lb	19.7 l	11.8 w	27.6 h

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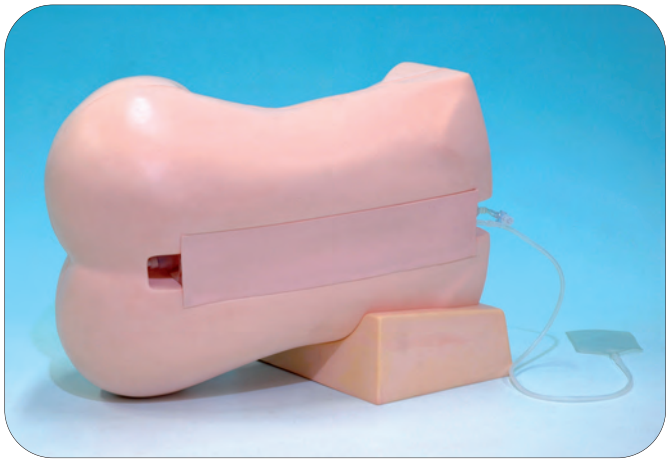
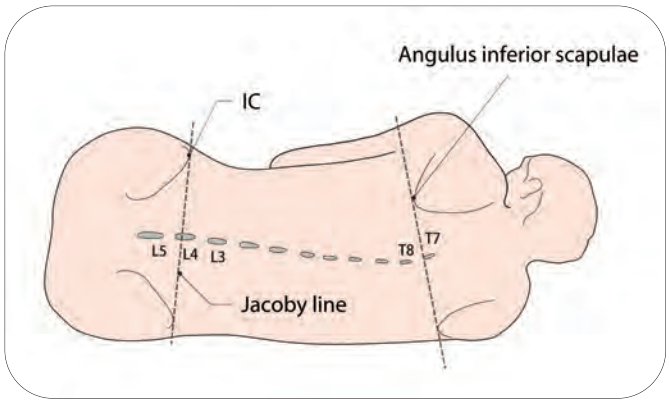
Product details correct at time of going to press. Subject to change.





Epidural anesthesia

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Thoracic & Lumbar Epidural Anesthesia Simulator

Part No: **KKMW3**

Designed to teach procedures relating to thoracic and lumbar epidural analgesia.

Skills

- Application of epidural anesthesia procedures into lumbar and thoracic area
- Lumbar puncture

Features

- Anatomically correct spinal column from T7 to L5
- Anatomical landmarks for palpation:
  - iliac crests (Jacoby line)
  - scapulae (angulus inferior scapulae)
  - spinous process
- Realistic resistance and 'pop' during passage of the needle
- Both left and right lateral positions are possible

Package supplied

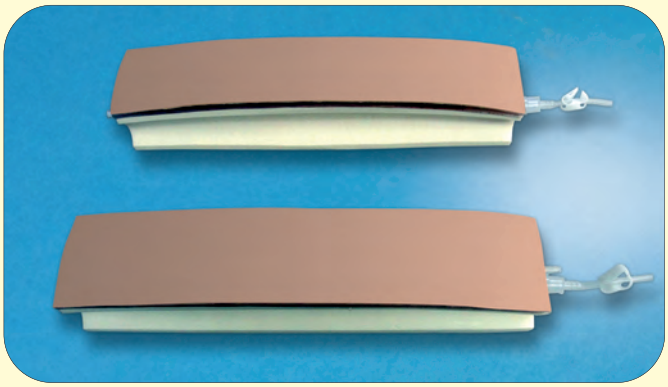
- 1 Life size unisex torso
- 1 Puncture pad
- 1 Supporting Stand
- 1 Drain pouch
- 1 50ml Syringe

Packed weight (lbs) & dimensions (in)	27.5 lb	24	l	17	w	14.2	h

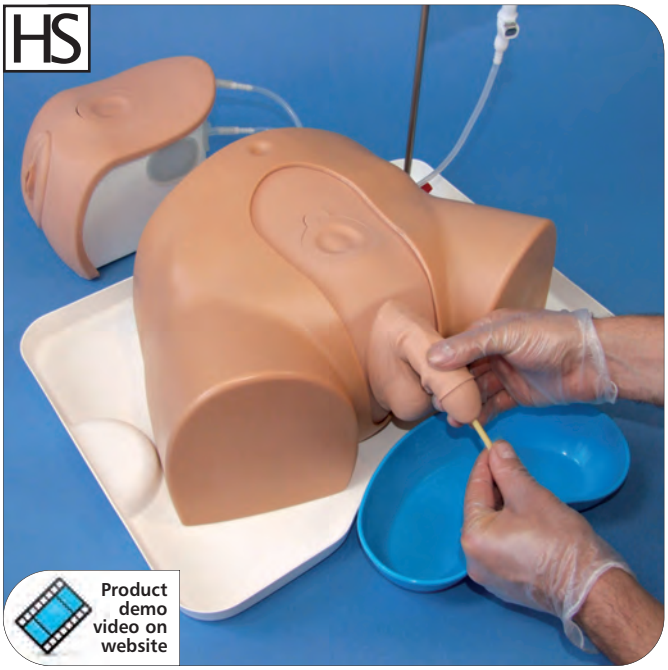
Product details correct at time of going to press. Subject to change.

Palpation

Lumbar puncture



Replacement Block (Set of 2)
Part No: **KK11382-010**



Advanced Catheterization Trainer

Part No: **60150**

The Advanced Catheterization Trainer facilitates the teaching of urethral and supra-pubic catheterization, and can also be used to demonstrate self-catheterization to patients.
It has interchangeable accurate male and female anatomy, and both sets of genitalia are realistically soft and pliable. The feel of the catheter passing along the urethra into the bladder corresponds closely to real life.

Skills

- Correct handling of male and female anatomy
- Aseptic catheterization technique
- Catheter placement: accepts catheters from 14-16 French (male) and 12-16 French (female)
- Fluid management
- Withdrawal of catheter
- Intermittent self-catheterization (ISC)
- Suprapubic catheter insertion and catheter management when using Suprapubic Bung (supplied)

Features

- Latex free
- Supple urethra and resistant sphincter providing realistic response
- Non-drip valve
- Male anatomy: realistic meatus, flaccid penis and replaceable foreskin
- Female anatomy: partable labia with realistic urethral meatus and vaginal opening
- 1 liter fluid bag on stand provides pressurized fluid flow
- Easily interchangeable Male and Female Catheterization Units
- Can be placed in 2 positions: reclining or upright (for teaching self-catheterization)
- Syringe supplied with water-based lubricant to simulate proprietary local anesthetic gel
- Reusable double-sleeve catheter packaging is supplied for teaching aseptic catheter handling

Penis has replaceable foreskin

Aseptic catheterization can be practiced with reusable sleeves

Accurate anatomical modelling allows for realistic catheterization

Suprapubic Bung Part No: **60158**

Male Catheterization Sphincter Kit Part No: **60159**
Kit contains: Male sphincter, O ring, allen key, lubricant

Female Catheterization Sphincter Kit Part No: **60162**
Kit contains: Female sphincter, O ring, allen key, lubricant

Package supplied

- 1 **Female Catheterization Unit** Part No: **60156**
- 1 **Male Catheterization Unit** Part No: **60152**
- 1 **Catheterization Foreskin (Pack of 3)** Part No: **60154**
- 1 **Suprapubic Bung (Pack of 2)** Part No: **60158**
- 2 **Standard Bung** Part No: **60161**
- 1 **Antifungal Agent (250ml)** Part No: **50185**
- 2 **Aseptic Catheterization Sleeves** Part No: **60160**
- 1 **Mock LA Gel with Syringe** Part No: **50183**
- 1 **Male Catheterization Sphincter Kit** Part No: **60159**
- 1 pelvic shell
- 1 plastic kidney dish
- 1 drip tray with bag stand & 1 liter fluid bag
- 1 14 French foley catheter (male)
- 1 12 French foley catheter (female)
- 1 2 liter jug

Packed weight (lbs) & dimensions (in)	26.7 lb	17.7 l	17.7 w	23.6 h

Advanced Male Catheterization Trainer

Part No: **60151**

Advanced Male Catheterization Trainer with suprapubic site and bung.

Package supplied

- 1 **Male Catheterization Unit** Part No: **60152**
- 1 **Catheterization Foreskin (Pack of 3)** Part No: **60154**
- 1 **Suprapubic Bung** Reorder: **60158**
- 1 **Standard Bung** Part No: **60161**
- 1 **Antifungal Agent (250ml)** Part No: **50185**
- 2 **Aseptic Catheterization Sleeves** Part No: **60160**
- 1 **Mock LA Gel with Syringe** Part No: **50183**
- 1 **Male Catheterization Sphincter Kit** Part No: **60159**
- 1 pelvic shell
- 1 drip tray, bag stand
- 1 liter fluid bag & plastic kidney dish
- 1 14 French foley catheter (male)
- 1 2 liter jug

Packed weight (lb) & dimensions (in)			
26.7 lb	17.7 l	17.7 w	23.6 h

Advanced Female Catheterization Trainer

Part No: **60155**

Advanced Female Catheterization Trainer with suprapubic site and bung.

Package supplied

- 1 **Female Catheterization Unit** Part No: **60156**
- 1 **Suprapubic Bung** Reorder: **60158**
- 1 **Standard Bung** Part No: **60161**
- 1 **Antifungal Agent (250ml)** Part No: **50185**
- 2 **Aseptic Catheterization Sleeves** Part No: **60160**
- 1 **Mock LA Gel with Syringe** Part No: **50183**
- 1 pelvic shell
- 1 drip tray, bag stand
- 1 liter fluid bag & plastic kidney dish
- 1 12 French foley catheter (female)
- 1 2 liter jug

Packed weight (lb) & dimensions (in)			
26.7 lb	17.7 l	17.7 w	23.6 h

Basic Catheterization Trainers - Value Set

Part No: **60166**

In response to customer demand, we have introduced a cost effective Value Set containing a basic version of each of the Male and Female Catheterization Trainers. These basic versions do not contain the suprapubic bungs or the self-catheterization stands (although these can be ordered separately if wished at a later stage).

Skills

- Correct handling of male and female anatomy
- Aseptic catheterization technique
- Catheter placement: accepts catheters from 14-16 French (male) and 12-16 French (female)
- Fluid management
- Withdrawal of catheter

Features

- Same as the Advanced Catheterization Trainer

Package supplied

- 1 Basic Male Catheterization Trainer with carry case
- 1 Basic Female Catheterization Trainer with carry case

Packed weight (lb) & dimensions (in)			
23.7 lb	17.7 l	17.7 w	47.2 h

Patient Care Simulator

Part No: **KKM75 Sakura**

Part No: **KKM75B Sakura II**

Sakura is a comprehensive multi-purpose model for teaching a wide variety of hospital and community care procedures while Sakura II allows for more advanced training to be carried out.

Skills comparison	Sakura	Sakura II
Body positioning/Patient handling/Passive exercise	•	•
Change of clothes	•	•
Bed bathing	•	•
Hair care (shampooing, brushing & blowing)	•	•
Oral and denture care	•	•
Nasogastric tube replacement	•	•
Nasal oxygen tube	•	•
Tracheal intubation care	•	•
Tracheotomy care and management	•	•
TPN care	-	•
Intramuscular injection (shoulders, hips & thighs)	•	•
Stomach pumping	•	•
Venipuncture and blood collection	•	•
Care of a patient with IV lines (forearm & back of hands)	-	•
Stoma care	•	•
PEG care	•	•
Urethral catheterization	•	•
Enema	•	•
Vaginal douche	•	•
Bedpan practice	•	•
Digital disimpaction	-	•
Suppository insertion	-	•
Postmortem care	•	•

Features

- Lifelike model with full articulation
- Weight: 18kg (40lbs). Height: 158cm (5′ 3″)
- Can be placed in sitting position with no support
- Realistic articulating jaw and removable dentures
- Catheterization fluids are retained in reservoirs within the simulator and are filled via ports in the hip
- Simulated stomach, held within and accessed via the chest wall, can be filled with fluids which can be extracted, or for checking nasogastric tube placement
- Cleaning system incorporated for flushing urethra and rectum
- Removable basic intramuscular injection pads for arms and legs
- Male genitalia available (*not supplied*)

Package supplied

- Contents vary depending upon version bought

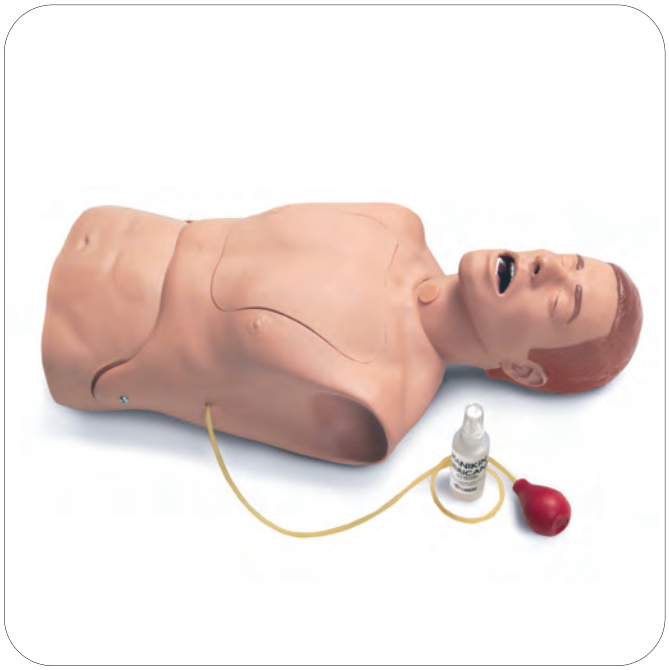
Sakura Packed weight (lb) & dimensions (in)	39.6 lb	69.3 l	21.3 w	14.2 h
Sakura II Packed weight (lb) & dimensions (in)	59.4 lb	69.3 l	21.3 w	14.2 h

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Top: Intramuscular injection
Middle: Body positioning
Bottom: Catheterization

Top: Nasogastric tube replacement
Middle: Patient handling
Bottom: Care of IV lines (Sakura II)



NG Tube & Trach Care Trainer

Part No: **LD375-10001**

Torso task trainer designed for instruction in the care of patients with respiratory conditions and the practice of gastrointestinal care procedures via nasal and oral access.

Skills
- Tracheostomy care
- Tracheal suctioning
- NG tube insertion and removal
- NG tube irrigation, instillation and monitoring
- Feeding tube insertion and removal
- Gastric lavage and gavage
- Nasoenteric and esophageal tube insertion, care & removal
- Oropharyngeal and nasopharyngeal insertion and suctioning
- Insertion, securing and care of endotracheal tubes

Features
- Head features anatomical landmarks, trachea, esophagus, lungs and stomach
- Lungs and stomach may be filled with fluid for realistic practice of many procedures

Package supplied
- 1 Adult male torso
- 1 Mannequin lubricant
- 1 Tank top
- 1 Carry case
- 1 User manual

Packed weight (lbs) & dimensions (in)	32.9 lb	40.2 l	16.2 w	12.0 h

Laerdal helping save lives

Tube Feeding Simulator

Part No: **KKMW8**

The Tube Feeding Simulator offers effective training for caregivers and medical professionals who work with patients with enteral tube nutrition. The mannequin offers three routes for EN tubes and allows training with real liquid foods. Correct placement of the tubes can be confirmed by auscultation and direct observation. A feeding routes panel and a chest sheet to facilitate anatomical understanding come with the model.

Skills
- Feeding tube insertion: nasogastric (NG), orogastric (OG), percutaneous endoscopic gastrostomy (PEG)
- Confirmation of tube placement
- PEG care: tube insertion in and setting the balloon
- Administration of liquid food

Features
- Compact and portable
- Flexible neck allows for appropriate neck/head positioning
- Tube placement can be confirmed by auscultation
- Transparent chest enables direct observation of procedures
- Can be set at Fowler's position
- Stomach accepts up to 300cc of liquid

Package supplied
- 1 Male torso and support base
- 1 Drain tube, funnel and plastic cup
- 1 Tube feeding routes panel
- 1 Chest sheet
- 1 Instruction manual

Product details correct at time of going to press. Subject to change.

Packed weight (lb) & dimensions (in)	19.8 lb	28.3 l	17 w	12.2 h

KYOTO KAGAKU

NEW

Otto Ostomy™

Standard Part No: **VT0300**

Advanced Part No: **VT0310**

Otto Ostomy™ is designed to enable students, patients and their families to become more knowledgeable about stomas and stoma care.

Skills

- Demonstrating the functionality of ileostomies, urostomies and colostomies

Features

- It has a clear torso shell with four openings for the insertion of stomas
- The torso shell is easily removed for teaching or to facilitate in accessing and manipulating the intestines
- The color coded organs displayed include: stomach, small intestine, large Intestine, rectum, kidneys, ureters, bladder
- Many of these parts are removable to aid in teaching procedures where these organs will be removed

Standard Package supplied

Includes: anodized aluminum base, clear torso shell with four openings for stoma placement, stomach, small intestine, large intestine, rectum, kidneys, ureters and bladder, ileal conduit, two sections of small intestine, two adaptor connectors (to demonstrate loop stoma with either the small or large intestine), four stomas: 7/8" diameter, 2" diameter, 7/8" with two 3" stents (to be used with the ileal conduit), loop stoma with rod, and user manual.

Advanced Package supplied

The Standard Package plus: 7/8" Diameter Stoma, 2" Diameter Stoma, Urostomy Stoma with 3" Stents in place, Loop Stoma with Rod, oop Stoma without rod, Double Barrel Stoma, Oval Stoma, Mushroom Stoma, Prolapsed Stoma, 3" Diameter Stoma, Granulomas Stoma, Necrotic Stoma, Ischemic Stoma, In-Skin-Fold Stoma, Parastomal Hernia Stoma, Mucocutaneous Separation Stoma, Recessed Stoma, Flush Stoma, Ileal Conduit, Small Intestine Loop, Small Intestine Loop Adapter and Large Intestine Loop Adapter.

Additional parts supplied with the Advanced version

Adult Bathing & Patient Care Models

Part No: **KKM60 Female**

Part No: **KKM72 Male**

Life-size models of an adult female and adult male.

Skills

- Bathing
- Partial bathing
- Dry bathing
- Patient handling
- Transportation
- Dressing and undressing
- Artificial denture care (male only)

Features

- Life-size: 62" tall (female) & 66" tall (male)
- Waterproof: seamless body allows realistic bathing practice
- Realistic buoyancy of the body in water
- Movable joints (shoulders, elbows, knees, wrists, ankles and fingers) allow realistic patient handling and transportation
- Can be carried by one person: 28lb (female) & 31lb (male)
- Soft plastic skin covering a metal frame

Female:

Packed weight (lb) & dimensions (in)	44	lb	64.5	l	20.8	w	10.6 h

Male:

Packed weight (lb) & dimensions (in)	49.6	lb	69.6	l	21.2	w	13.7 h

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Specialist Skills

Products for specialist and surgical skills training

The increasing specialization of medical and other healthcare careers demands careful preparation and specialist training equipment.

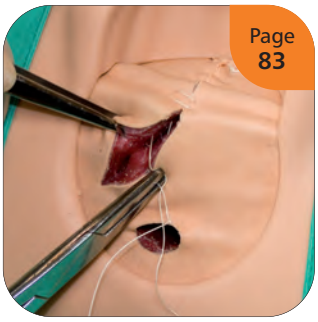
The Limbs & Things Specialist Skills product ranges have been selected to meet the increasingly complex needs of both civilian and military practice in basic, intermediate and advanced surgical skills; Emergency Medicine; Gynecology; Obstetric & Midwifery practice; Pediatrics and Wound Care.

Popular products

Professional Skin Pad Mk 2

Shoulder for Joint Injection

PROMPT Birthing Simulator



Keele & Staffs Perineal Repair Trainer

New products

SutureTutor Plus™

SPACEFAN-ST Foetal Ultrasound Examination Trainer

Products in this section

Limbs & Things *learning online*™	44-45
PHaSES Range	46-51
Skin Pad Jig & Skin Pads	52-55
Ingrowing Toenail Trainer	55
Diagnostic Face with Lesions	56
Joint Injection & Aspiration	56-58
Podiatry	59
Colonoscopy Training Model	60
Open Inguinal Hernia Repair Trainer	61
TEP Guildford MATTU Hernia Trainer	62
IOUSFAN Phantom & Laparoscopic Trainer	63
Laparoscopic Trainers	63-65
Laparoscopic Skill Games & Surgical Procedure Pads	66-71
Hysteroscopic Trainers	72
Surgical Female Pelvic Trainer	73
Urethral Sling Procedure Trainer	74
Cordocentesis Trainer	74
SPACEFAN-ST Fetal Ultrasound Examination Trainer	75
PROMPT Birthing Simulator	76-78
MamaNatalie Birthing Simulator	79
SimMom™	80-81
Newborn Anomaly Prosthetics • Fetal Demise Sim	82
Keele & Staffs Perineal Repair Trainer	83
Perineal Repair Trainer • FGM Deinfibulation Trainer	84
Sultan Anal Sphincter Trainer	85
Umbilical Cord • Translucent Uterus	86
Breastmilk Hand Expression Trainer	86
PAT Pediatric Auscultation Trainer	87
TruCorp AirSim: Baby • Child • Pierre Robin	88
Newborn Anne • Resusci Baby & Junior	89
Nita Newborn • Intraosseous Trainer	90
Pediatric IV Hand Simulators	91
Pediatric Lumbar Puncture Simulator	91
Baby Hippy	92
Newborn, Baby, Junior Care Models	92
Nickie® Medical Training Doll	93
Wound Care	94-95

SutureTutor Plus™

Products for Single Users/Individuals
Lite Complete Part No: **STP-LITE-COM**
Lite Subscription Part No: **STP-LITE-SUB**
Pro Complete Part No: **STP-PRO-COM**
Pro Subscription Part No: **STP-PRO-SUB**

Products for Multi Users/Institutions
Please contact us for more details or download the price list from the website

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SutureTutor Plus™ is our first online self-directed learning package available from our *learning online* website. It will benefit any student or healthcare professional wanting to acquire hands-on practical skills, or any institution delivering training in knot tying and suturing.

Techniques are explained using a combination of clinical video footage, computer animations and practical demonstrations performed on Limbs & Things tried-and-tested training models.

The course closely follows the UK intercollegiate surgical skills curriculum, so the content will help you acquire excellent practical skills through the use of recognized 'best practice' techniques.

Visit the website for more information

www.limbslearningonline.com

Course Content

Our ***SutureTutor Plus***™ course comprises 11 modules, with over 300 short videos and more than 40 step-by-step practical tutorials.

We offer both individual and institutional licences.

You can choose whether to purchase the full course content (Pro version), or a Lite version with six core modules only. The list below shows which modules are included in each package:

Modules	Lite	Pro
Patient management & consent	-	✓
Scrubbing, gowning & gloving	-	✓
Handling of instruments	✓	✓
Needles and sutures	✓	✓
Knot tying	✓	✓
Cleaning a wound	-	✓
Local anesthesia	-	✓
Incision of skin & subcutaneous tissue	✓	✓
Suturing techniques	✓	✓
Suture aftercare	✓	✓
Other methods of wound closure	-	✓

Part No: **STP-LITE-COM**
- 12 months access to the 6 core course modules
- Hands-on Kit

Part No: **STP-PRO-COM**
- 12 months access to all 11 course modules
- Hands-on Kit

Part No: **STP-LITE-SUB**
- 12 months access to the 6 core course modules

Part No: **STP-PRO-SUB**
- 12 months access to all 11 course modules

Hands-on Kit

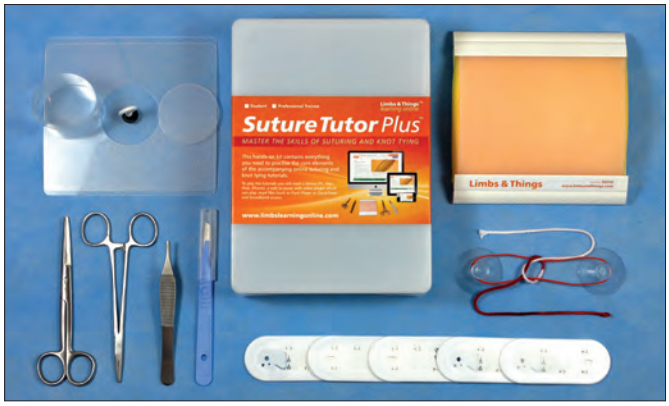
There's no better way to practice the techniques than by using our tried-and-tested *Hands-on Kits* as you watch the step-by-step videos. We provide everything you need to practice over 30 of the techniques demonstrated in the course.

Individuals purchasing the Lite Complete or Pro Complete versions of ***SutureTutor****Plus*™ will receive a Kit as part of the subscription package.

Institutions automatically receive 5 Kits with their institution licence and can purchase additional Kits separately.

Kit contents include:
- Professional Skin Pad Mk 2 (page 53)
- Skin Pad Jig (page 52)
- knot tying kit
- scalpel, dissecting forceps, scissors, needle holder
- 10 sutures

The Kit comes in a robust, highly portable plastic container which allows you to pack the contents away safely and quickly. The lid can even double as a temporary sharps bin while you work.

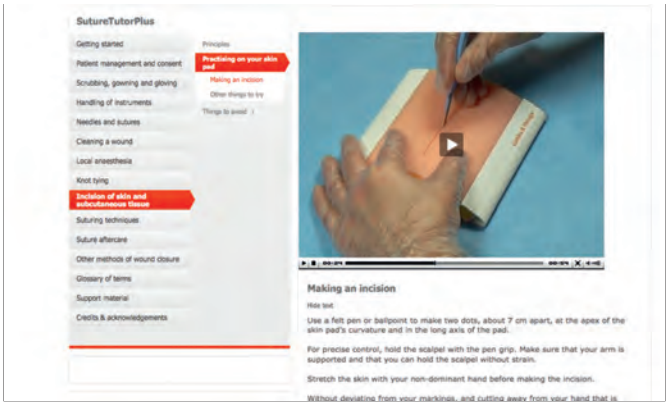


The Hands-on Kit contains everything you need to get started

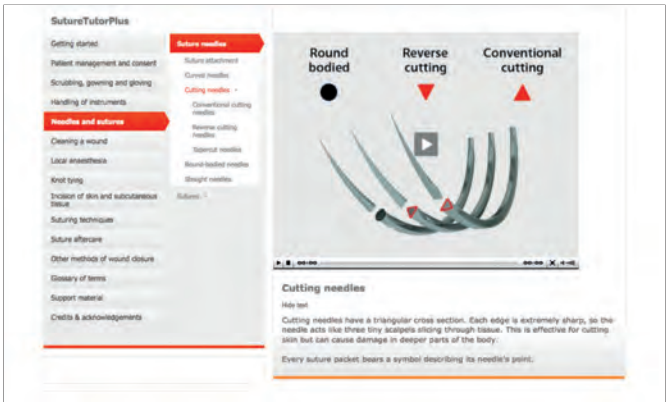
Hands-on Kit is highly portable

Limbs & Things learning online
About
SutureTutor Plus
MASTER THE SKILLS OF KNOT TYING AND SUTURING
SutureTutorPlus - new from Limbs & Things learning online
Buy now
Sign in

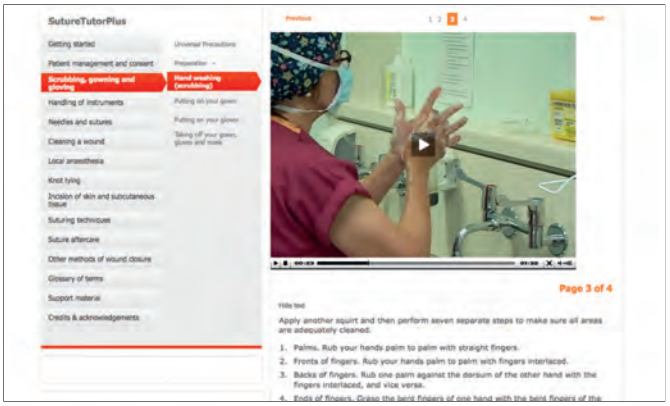
Welcome to ***SutureTutor****Plus*™



Demonstration videos use products from the Hands-on Kit



Explanatory videos use computer graphics for clarity



Practical videos use clinical footage

PHaSES: Practical Hands-on Surgical Education System

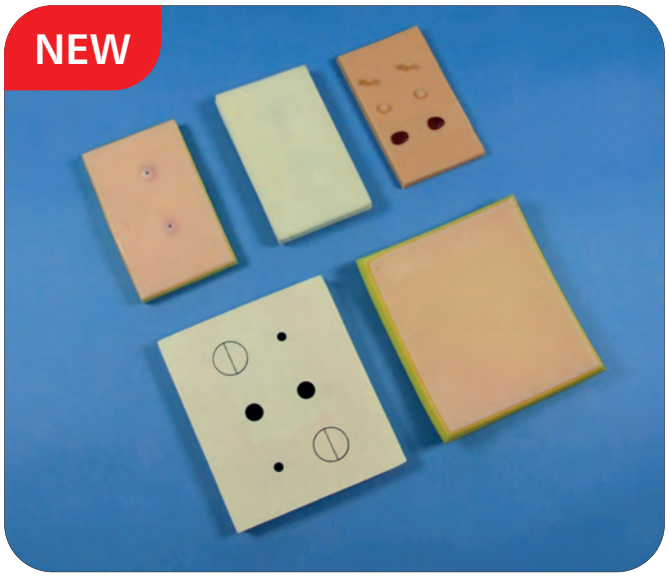
Limbs & Things is pleased to introduce the PHaSES Range. The range is based upon our well known basic & general surgical skills products, and is designed to address the developing skills & learning needs of surgical trainees. This flexible range will enable you to develop your surgical simulation program and provide cost-effective solutions for your surgical trainees.

The flexible PHaSES Range combines our popular basic surgical skills products into Kits and Course Packs that will enable you to provide a cost effective solution to address developments within the ACS Surgical Curriculum, the forthcoming ACS / ASE Medical Student Simulation Curriculum and other Residency Simulation Programs.

PHaSES Instrument Kit

Part No: **50080**

- Scalpel handle No. 3 and blade Nos 10 & 15
- Dissecting forceps • Suture scissors • Dissecting scissors
- Needle holder • Pack of 10 sutures



PHaSES Standard Tissue Kit

Part No: **50081**

- Professional Skin Pad • Curettage, Snip & Shave Excision Pad
- Sebaceous Cyst Pad • Lipoma Pad • Local Anesthesia Pad

PHaSES Toenail Kit

Part No: **50082**

- Ingrowing Toenail Trainer • Thwaite's Nipper • Nail Chisel
- Nail Probe • Artery Forceps • Tourniquet & Clip
- Syringe with needle

PHaSES Advanced Tissue Kit

Part No: **50083**

- PHaSES Trainer 1 • Double Layer Bowel • Arteriotomy Set
- Local Anesthesia Pad • Soft Tissue Retaining Clips

NEW

PHaSES Standard Course Pack

Single Pack Part No: **50084**
Set of 5 Packs Part No: **50085**
Set of 10 Packs Part No: **50086**

The PHaSES Standard Course Pack provides the learner with an opportunity to develop basic tissue handling & surgical skills.

Skills

Knot Tying Trainer
- One-handed reef knot technique • Instrument tie
- Surgeon's knot • Slip knot • Tying in a small opening

PHaSES Standard Tissue Kit
- Professional Skin Pad: see listing on page 53
- Curettage, Snip & Shave Excision Pad: see listing on page 55
- Lipoma Pad: see listing on page 54
- Sebaceous Cyst Pad: see listing on page 54
- Local Anesthesia Pad: superficial local anesthesia techniques (fan shaped, encirclement, needle placement, fluid infiltration)

Features
- For Knot Tying Trainer see listing on page 48
- For PHaSES Standard Tissue Kit see individual product listing as shown above in Skills

Package supplied
- 1 **Knot Tying Trainer** Part No: **50094**
- 1 **PHaSES Standard Tissue Kit** Part No: **50081**
- 1 **PHaSES Instrument Kit** Part No: **50080**

NEW

PHaSES Advanced Course Pack

Single Pack Part No: **50087**
Set of 5 Packs Part No: **50088**
Set of 10 Packs Part No: **50089**

The PHaSES Advanced Course Pack provides the learner with an opportunity to develop intermediate & advanced tissue handling & surgical skills.

Skills

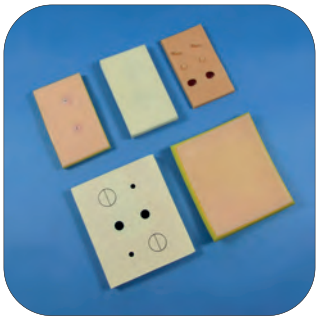
Knot Tying Trainer
- See listing on page 48

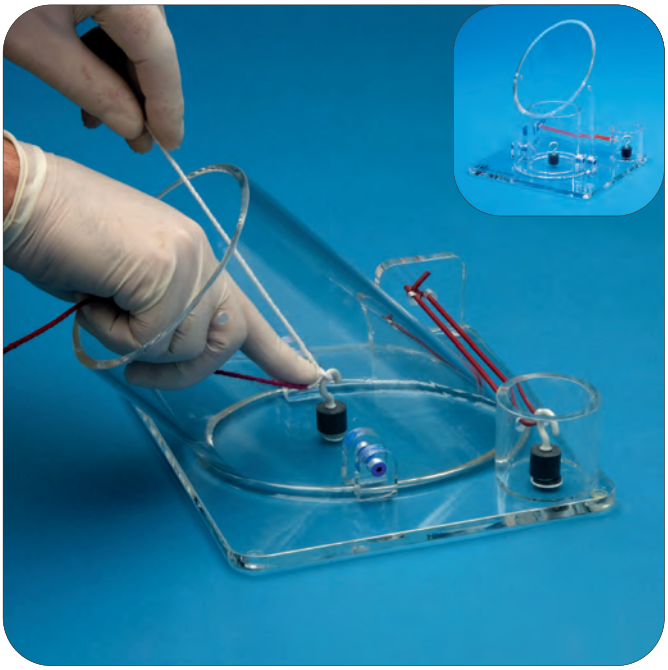
PHaSES Skills Board and AOCT Pad & Frame
- See listing on page 49

PHaSES Advanced Tissue Kit
- Local Anesthesia Pad: superficial local anesthesia techniques (fan shaped, encirclement, needle placement, fluid infiltration)
- PHaSES Trainer 1: see listing on page 51
- PHaSES Double Layer Bowel: see listing on page 50
- Arteriotomy Set: Vascular anastomosis • Transverse arteriotomy • Primary closure of transverse arteriotomy • Longitudinal arteriotomy • Vein patch repair of artery

Features
- For Knot Tying Trainer see listing on page 48
- For all other products see the individual product listing as shown above in Skills

Package supplied
- 1 **Knot Tying Trainer** Part No: **50094**
- 1 **PHaSES Surgical Skills Board** Part No: **50093**
- 1 **Professional AOCT Pad** Part No: **60431**
- 1 **PHaSES Advanced Tissue Kit** Part No: **50083**
- 1 **PHaSES Instrument Kit** Part No: **50080**





PHaSES Minor Surgery Course Pack

Single Pack Part No: **50090**
Set of 5 Packs Part No: **50091**
Set of 10 Packs Part No: **50092**

The PHaSES Minor Surgery Course Packs are ideal for family practice and rural medicine programs.

Skills

PHaSES Standard Tissue Kit

- Professional Skin Pad: see listing on page 53
- Curettage, Snip & Shave Excision Pad: see listing on page 55
- Lipoma Pad: see listing on page 54
- Sebaceous Cyst Pad: see listing on page 54
- Local Anesthesia Pad: superficial local anesthesia techniques (fan shaped, encirclement, needle placement, fluid infiltration)
- Lesions Pad: see listing on page 53

PHaSES Toenail Kit

- See listing on page 55

Features

- For PHaSES Standard Tissue Kit see individual product listing as shown above in Skills
- For PHaSES Toenail Kit see listing on page 55

Package supplied

- 1 **PHaSES Instrument Kit** Part No: **50080**
- 1 **PHaSES Standard Tissue Kit** Part No: **50081**
- 1 **PHaSES Toenail Kit** Part No: **50083**

PHaSES Knot Tying Trainer

Part No: **50094**

A comprehensive trainer for teaching all surgical knot tying techniques, including those specified in the ACS Surgical Curriculum and the forthcoming ACS / ASE Medical Student Simulation Curriculum. Developed in collaboration with Mr. Jonathan Beard, Northern General Hospital, Sheffield (UK) and Mr. John Rochester, Rotherham General Hospital (UK).

Skills

- One-handed reef knot technique • Instrument tie
- Surgeon's knot • Slip knot • Tying in a small opening
- Tying at depth vertically in a large opening
- Tying at depth, at an angle, in a large opening

Features

- Unique magnetic system to represent tissue strength
- 2 perioperative openings represented by:
  - small, shallow fixed cylinder for tying in a small opening
  - large, deep removable cylinder, reversible for angled abdominal and gynecological depth tying
- Cylinders are transparent to allow the trainer to observe and assess trainee competence
- Parallel knotting tubes are elastic for a realistic tissue response
- Light and compact

Package supplied

- 1 **Two Colored Cord (Pack of 3)** Part No: **50164**
- 1 **Knotting Tube (Pack of 3)** Part No: **50158**
- 1 Base with cylinders
- 1 Knot tying tension hooks (Set of 3)

Packed weight (lbs) & dimensions (in)	2.5 lb	6.3 l	9.5 w	11.8 h

PHaSES Surgical Skills Board

Part No: **50093**

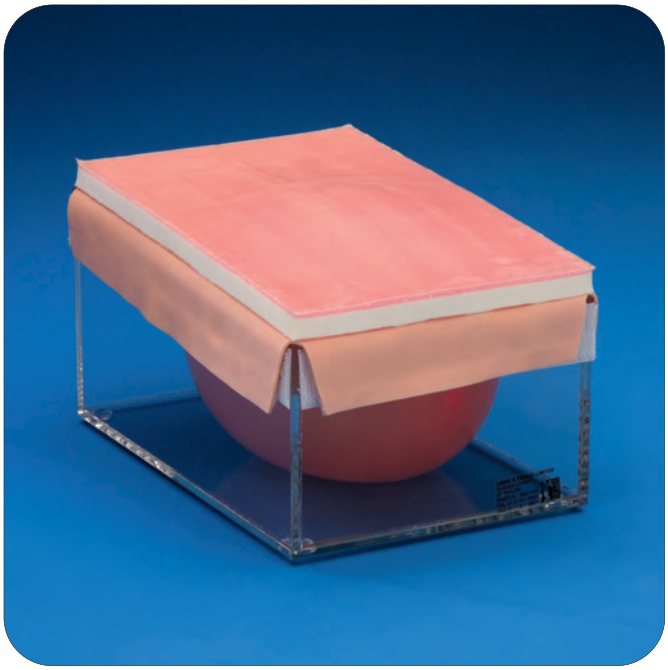
Ideal platform to secure the products provided in the PHaSES Standard and Advanced Tissue Kits.

Skills
- Pertinent to the synthetic soft tissue product used

Features
- Non-slip heavyweight base
- Smooth top surface allows for secure fixing of soft tissue products using supplied Soft Tissue Retaining Set
- Large board size: 24cm x 31cm
- Wipe clean surface

Package supplied
- 1 **Soft Tissue Retaining Set** Part No: **50054**
  - 2 retaining clips with suction cups
  - 4 retaining clips with attachment loops
- 1 Skin Pad Jig
- 1 base

Packed weight (lbs) & dimensions (in)	2.2 lb	10.0 l	13.8 w	2.0 h



PHaSES Abdominal Opening & Closure (AOCT) Trainer

Part No: **50095**

An advanced abdominal wall pad incorporating epidermis, dermis, fat & linea alba. This pad, with separate peritoneal layer, is mounted on a base for teaching all surgical access and closure techniques to the abdomen.

Skills

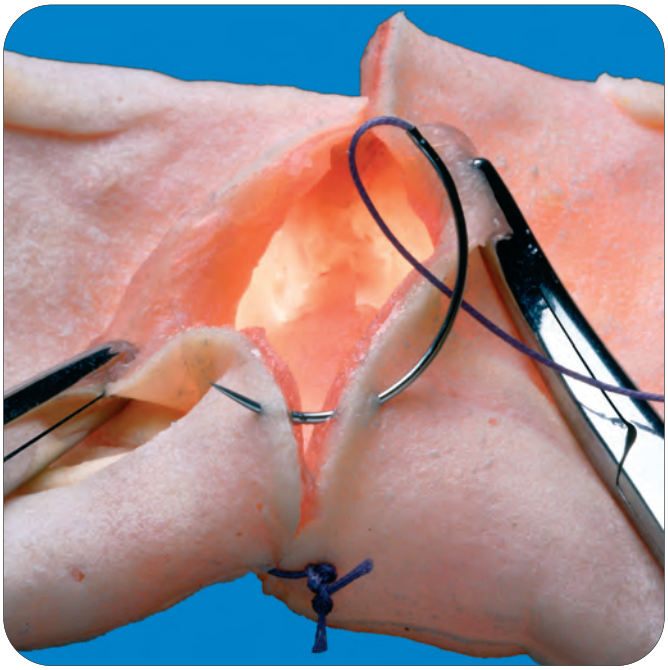
In addition to those of the Standard AOCT:
- Incisions: linear, ellipse, flaps, shaped
- Subcuticular undermining
- Simple and advanced interrupted suturing techniques
- Subcuticular suturing
- Continuous suturing
- Stapling
- Use of adhesive strips

Features

In addition to those of the Standard AOCT:
- 5 layered system represents the abdominal wall anatomy: epidermis, dermis, fat, linea alba, peritoneum

Package supplied
- 1 **Professional AOCT Pad** Part No: **60431**
  (Includes 2 peritoneums & 5 balloons)
- 1 AOCT base

Packed weight (lbs) & dimensions (in)	3.1 lb	10.2 l	10.2 w	15 h



PHaSES Double Layer Bowel

30mm OD Part No: **50096**

20mm OD Part No: **50097**

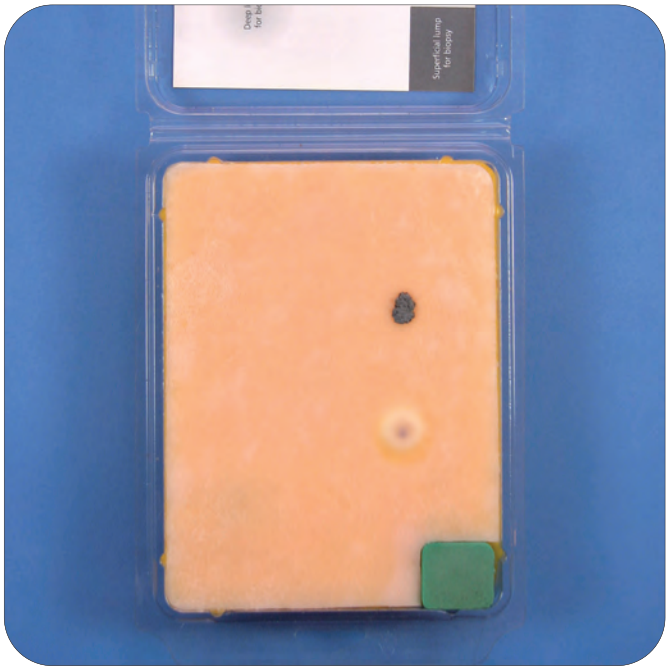
Realistic two layer bowel simulation for training in anastomosis techniques.

Skills
- Tissue handling
- Single layer extra mucosal suturing
- Continuous suturing technique
- End-to-end extra mucosal anastomosis (main image)
- End-to-side anastomosis
- Stapling

Features
- Latex free
- Two layers
- Realistic tissue response
- Non-biological material: no hygiene issues or problems
- Mobile when held in Soft Tissue Retaining Set (page 66)
- Will withstand a fluid flush test to demonstrate integrity of the anastomosis
- Dimensions:
  - outside diameter: 20mm or 30mm
  - length: 200mm (approx.)

Both products:

Packed weight (lbs) & dimensions (in)	0.1	lb	9.25	l	1.6	w	1.6	h



PHaSES Trainer 1

Part No: **50098**

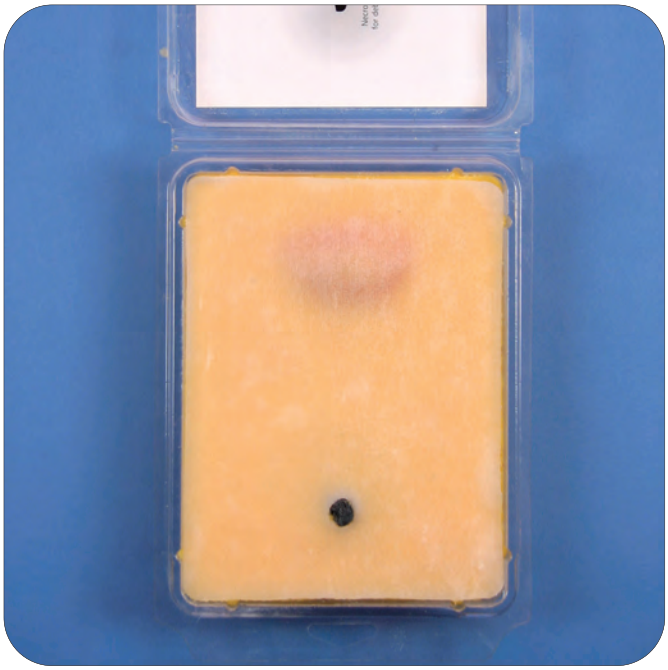
For the practice of skin lesion removal, and local anesthesia, cytology & biopsy techniques.

Skills
- Excising a skin lesion
- Excising a sebaceous cyst
- Fine needle aspiration cytology
- Trucut biopsy

Features
- Cyst has a fragile epidermoid wall filled with simulated pus
- Visit the product web page for more features

Package supplied
- 1 PHaSES Trainer 1

Packed weight (lbs) & dimensions (in)	2.9	lb	6.3	l	9.5	w	12.2	h



PHaSES Trainer 2

Part No: **50099**

For the practice of abscess drainage and necrotic wound debridement.

Skills
- Abscess drainage
- Necrotic wound debridement

Features
- Abscess contains simulated pus (see inset)
- Visit the product web page for more features

Package supplied
- 1 PHaSES Trainer 2

Packed weight (lbs) & dimensions (in)	2.7 lb	6.3 l	9.5 w	12.2 h

Abscess with simulated pus

PHaSES Traumatic Wound

Part No: **50100**

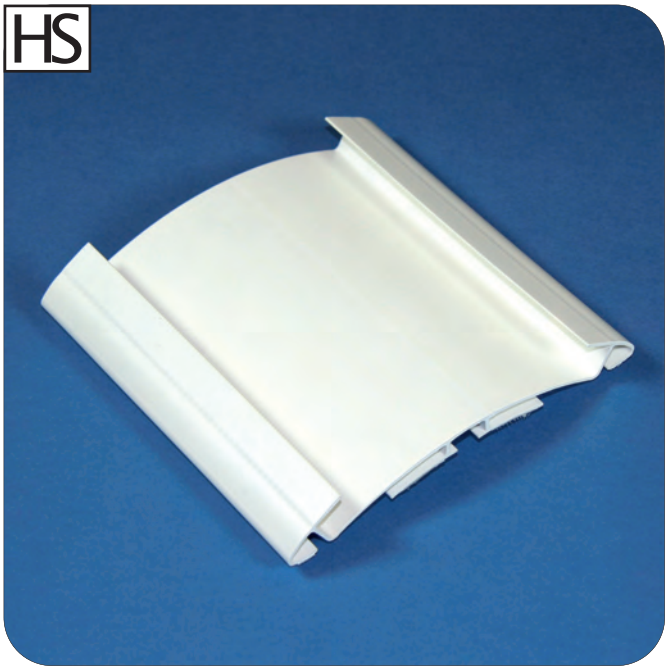
Skills
- Wound management
- Traumatic wound debridement

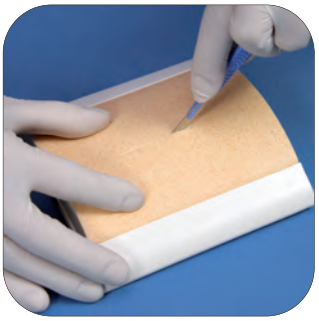
Features
- Realistic soft tissue with skin, fat and muscle layers
- Wound contains:
  - broken bone with splinters, tendon and fluid filled vein
  - necrotic tissue and simulated foreign bodies (glass and dirt)
- Supplied in handy, compact clam pack with lid which can be used to retain excised tissue and removed foreign bodies

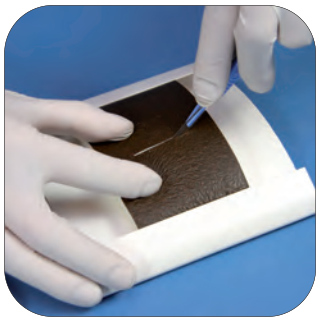
Package supplied
- 1 PHaSES Traumatic Wound
- 1 bag of simulated foreign bodies

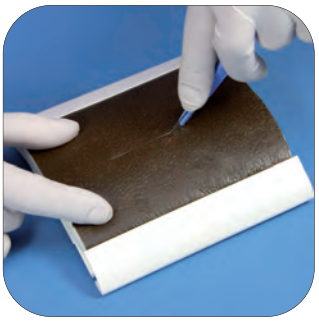
Packed weight (lbs) & dimensions (in)	1.3 lb	10.2 l	14.6 w	3.2 h

Close up of wound









Skin Pad Jig Mk 3

Part No: **00550**

This redesigned Jig supports the entire range of Limbs & Things synthetic soft tissue pads.

Features
- Presents pads on a curved lifelike profile allowing incisions to 'gape', as in real life
- Flexible plastic allows for realistic 'give' of skin pad when pressure is applied
- Stable and non-slip
- Suction cups work effectively on smooth work surfaces

Package supplied
- 1 Skin Pad Jig Mk 3

Packed weight (lb) & dimensions (in)								
0.2	lb	5.9	l	4.9	w	1.0	h

Use with these products:

PAGE 52 PAGE 52 PAGE 54 PAGE 54 PAGE 55

Skin Pad Jig Strap

Part No: **00510 (Pack of 3)**

Allows the Skin Pad Jig to be strapped onto the limbs or body of a trainee.

Packed weight (lbs) & dimensions (in)								
0.3	lb	5.5	l	6.5	w	1.4	h

Wound Closure Pad

Light - Small (Pack of 12) Part No: **00042**
Light - Large (Pack of 6) Part No: **00041**

Black - Small (Pack of 12) Part No: **00044**
Black - Large (Pack of 6) Part No: **00043**

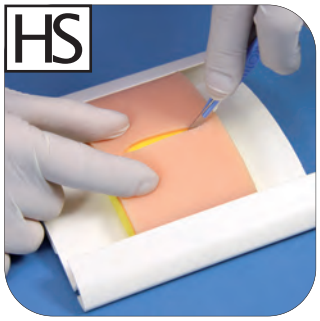
A low cost pad, ideal for demonstrating training and practicing core skills associated with wound closure.

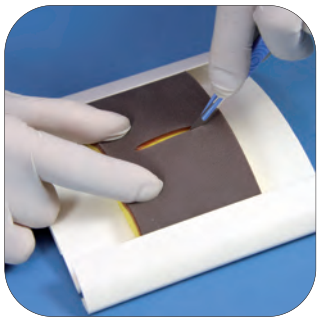
Skills
- Making an incision
- Application of skin adhesives
- Interrupted suturing and knotting
- Stapling

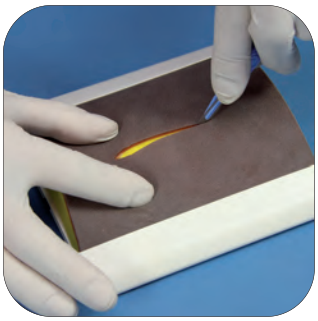
Features
- Latex free
- Works with all major topical skin adhesives
- Provides an excellent starter pad for wound closure needs
- A good marketing tool to display a variety of different sutures and skin adhesives
- Pad dimensions:
  - large 145mm x 125mm
  - small 125mm x 72mm
- Use with Skin Pad Jig Mk 3 (page 52)

All packs:

Packed weight (lbs) & dimensions (in)								
0.8	lb	2.4	l	9.8	w	15.4	h







Professional Skin Pad Mk 2

Light - Small (Pack of 4) Part No: **00091**
Light - Large (Pack of 2) Part No: **00092**

Black - Small (Pack of 4) Part No: **00093**
Black - Large (Pack of 2) Part No: **00094**

An advanced 3 layer skin pad for the demonstration and training of a variety of incisions and a wide range of suturing techniques.

Skills
- Incisions: linear, ellipse, flaps, shaped
- Subcuticular undermining
- Simple and advanced interrupted suturing techniques
- Subcuticular suturing
- Continuous suturing
- Stapling
- Use of adhesive strips

Features
- Latex free
- Realistic tissue response
- Soft skin with a similar drag and strength to human skin
- Comprises epidermis, dermis and subdermal layer
- All layers have a realistic retention of sutures
- Serves the needs of the specialist as well as the beginner
- Pad dimensions:
  - large 145mm x 125mm
  - small 125mm x 72mm
- Use with Skin Pad Jig Mk 3 (page 52)

All packs:

Packed weight (lbs) & dimensions (in)	0.6	lb	2.4	l	5.5	w	6.7	h

Lesions Pad

Part No: **00085**

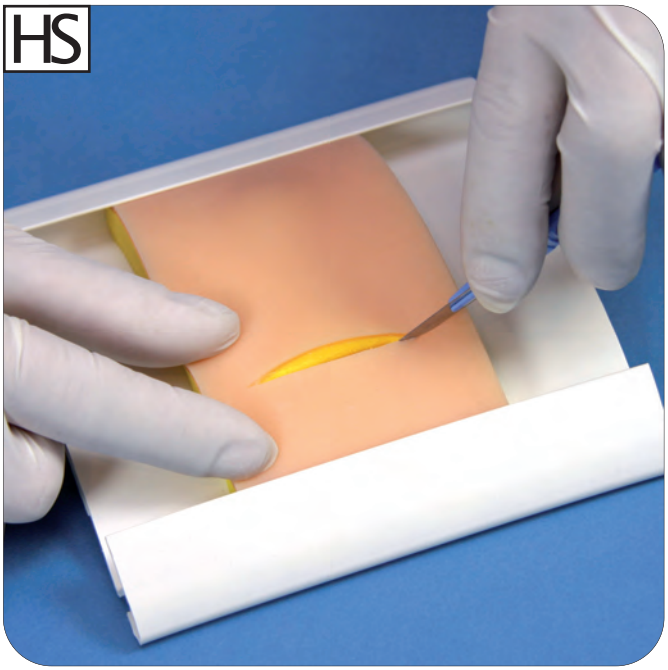
Limbs & Things, in conjunction with a leading US dentistry school, is proud to introduce a new product offering for dental and surgical professionals. The Lesions Pad features 3 common morphologies that promote the recognition of identifiable landmarks and the practice of various biopsy procedures and suturing techniques.

Skills
- Designed to promote the recognition of common Oral pathology: papule, macule and ulcer
- Also suitable to promote the recognition of simple Dermal pathologies
- Incision biopsy
- Excision biopsy
- Punch biopsy
- Planning of oral and minor surgical and suturing techniques

Features
- Cost effective pad allows several biopsy attempts
- Latex free
- Pad dimensions: 125mm x 72mm
- Use with Skin Pad Jig Mk 3 (page 52)

Package supplied
- 1 Lesions Pad

Packed weight (lbs) & dimensions (in)	0.9	lb	0.8	l	3.2	w	5.1	h



Lipoma Pad

Part No: **00081**

For practicing the full lipoma removal procedure.

Skills

- Designing the incision
- Incising the skin
- Removal
- Marking out the lipoma
- Blunt dissection
- Closure

Features

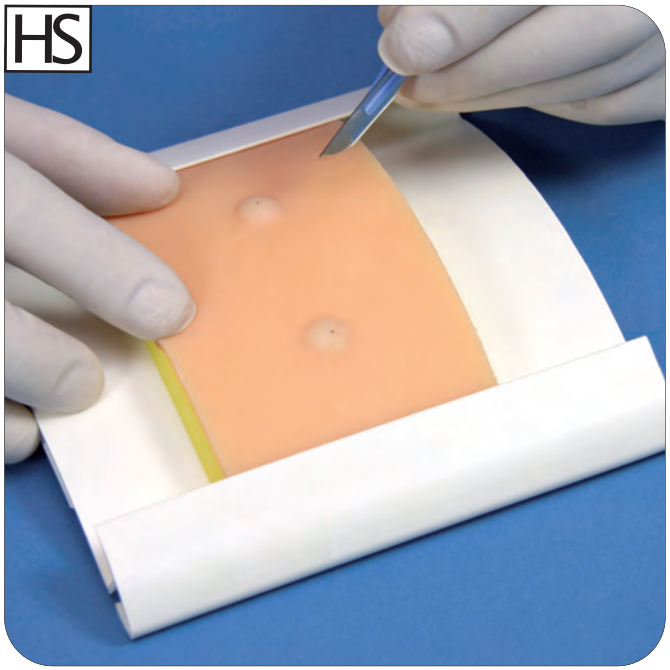
- Contains 2 lipomas
- The lipoma is consistent with that found in a patient:
  - lipoma sited within the fat layer
  - precise replication of in-vivo adhesion
  - all layers of tissue can be identified
- Pad dimensions: 125mm x 72mm
- Use with Skin Pad Jig Mk 3 (page 52)
- Now latex free

Package supplied

- 1 Lipoma Pad

Lipoma being removed from Lipoma Pad

Packed weight (lbs) & dimensions (in)	0.9	lb	0.8	l	3.2	w	5.1	h



Sebaceous Cyst Pad

Part No: **00071**

For practicing the full sebaceous cyst removal procedure.

Skills

- Marking out the cyst
- Incising the skin
- Blunt dissection
- Removal
- Planning and marking the ellipse
- Sharp dissection
- Management of a burst cyst
- Closure

Features

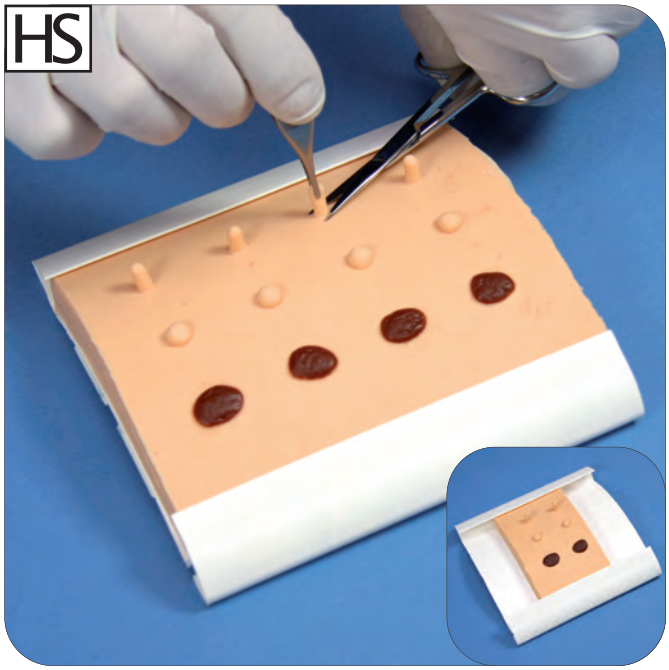
- Contains 2 cysts
- The cyst is consistent with that found in a patient:
  - sits immediately below, and is attached firmly to the underside of the skin layer
  - exhibits appropriate adhesion to other surrounding tissue
  - has a fragile epidermoid wall filled with simulated pus
- Pad dimensions: 125mm x 72mm
- Use with Skin Pad Jig Mk 3 (page 52)
- Now latex free

Package supplied

- 1 Sebaceous Cyst Pad

Cyst being removed from Sebaceous Cyst Pad

Packed weight (lbs) & dimensions (in)	0.6	lb	0.8	l	3.2	w	5.1	h



Curettage, Snip & Shave Excision Pad

Large (Pack of 2) Part No: **00103**

Small (Pack of 4) Part No: **00104**

Combines a number of skin lesions for teaching superficial dermatological lesion removal techniques.

Skills

- Snip excision
- Shave excision
- Curettage

Features

- Latex free
- Cost effective pad (large) comprising: 4 skin tags, 4 naevi and 4 seborrhoeic keratoses (small pad has 2 of each)
- Pad material:
  - stretches to allow realistic extension of the tissue surrounding the skin tags during snip excision
  - stretches to allow realistic extension of naevi during shave excision
  - allows seborrhoeic keratoses to be removed using curettage technique
- Pad dimensions: large 145mm x 125mm
  small 125mm x 72mm
- Use with Skin Pad Jig Mk 3 (page 52)

Both packs:

Packed weight (lbs) & dimensions (in)	1.3 lb	2.4 l	5.5 w	6.7 h

Ingrowing Toenail Trainer

Part No: **80060**

This unique model closely mimics an inflamed toe end with an ingrowing toenail.

Skills

- Ring block techniques
- Application of a tourniquet
- Wedge excision - partial nail avulsion
- Total nail avulsion
- Phenolization techniques
- Ablation of the nail bed

Features

- Cost effective: 3 toe ends in the set
- 2 wedge excision procedures can be carried out on each toe end
- Toe ends can be replaced in seconds

Package supplied

- 1 **Toe Jig** Part No: **80071**
- 1 **Toe Ends (Pack of 3)** Part No: **80070**

Packed weight (lb) & dimensions (in)	0.3 lb	2.4 l	5.5 w	6.7 h

Wedge excision

Diagnostic Face with Lesions

Part No: **20001**

An invaluable aid for teaching the recognition of a wide variety of skin lesions. Provides a basis for the discussion of suitable procedures for their treatment, and the planning of skin flaps and incisions. Designed for diagnosis and planning only: use individual Limbs & Things skin pads for practicing operations.

Skills
- Identification of lesions
- Planning of procedures
- Understanding underlying structures

Features
- Realistic look and feel
- Sebaceous cyst in scalp and in ear lobe
- Meibomian cyst inside the eye lid • Cyst in mouth
- Skin tags on the eyelids and under the chin
- Seborrhoeic keratosis • Parotid tumour
- Lentigo tumour • Basal cell carcinoma
- Keratoacanthoma • Malignant melanoma
- Chondrodermatitis nodularis helicis
- Solar (actinic) keratosis • Extraneous lumps
- Supplied with 'No Trace' marker (non-permanent rapidly fading ink)
- By using the supplied marker the following can be indicated:
  - underlying muscular and venous structures
  - lines of skin tension
  - planning of incisions and flaps

Package supplied
- 1 **'No-Trace' Marker** Part No: **30023**
- 1 Face with lesions on a rigid plastic base

Packed weight (lbs) & dimensions (in)	2.7 lb	7.5 l	15.8 w	15.8 h

Shoulder for Joint Injection

Part No: **30010**

For practicing soft tissue joint injection used for the treatment of injuries and arthritis.

Skills
- Patient posture and management
- Palpation techniques
- Injection on 5 specific sites:
  - subacromial space
  - acromioclavicular joint
  - bicipital groove
  - glenoid fossa from the anterior aspect
  - glenoid fossa from the posterior aspect

Product Servicing
See page 1

Features
- Represents normal anatomy precisely (both superficially and subdermally) for palpation purposes
- Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired
- Supplied with 'No Trace' marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks

Package supplied
- 1 **'No-Trace' Marker** Part No: **30023**
- 1 **Shoulder Needle Set** Part No: **30094**
- 1 **Shoulder Skin** Part No: **30020**
- 1 Joint and Soft Tissue Injection book
- 1 Shoulder for Joint Injection
- 1 Feedback Console with batteries
- 1 Carry case

Packed weight (lbs) & dimensions (in)	18.1 lb	21.3 l	12.6 w	14.2 h

Elbow for Joint Injection

Part No: **30080**

For practicing soft tissue joint injection used for the treatment of injuries and arthritis. The arm is presented for the treatment of both Golfer's and Tennis elbow.

Skills

- Patient posture and management
- Palpation techniques
- Identifying anatomical landmarks and painful areas
- Injections for:
  - Tennis Elbow (lateral epicondylitis)
  - Golfer's Elbow (medial epicondylitis)
- Training in fan or cone infiltration techniques

Product Servicing
See page 1

Features

- Flexed right elbow, which rotates on the stand
- Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired, point of maximal tenderness has been palpated, and when the ulnar nerve has been hit
- Supplied with 'No Trace' marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks

Package supplied

- 1 **'No-Trace' Marker** Part No: **30023**
- 1 **Elbow Needle Set** Part No: **30093**
- 1 Joint and Soft Tissue Injection book
- 1 Elbow for Joint Injection
- 1 Feedback Console with batteries
- 1 Carry case

Packed weight (lbs) & dimensions (in)	14.1 lb	21.3 l	12.6 w	8.3 h

Hand & Wrist for Joint Injection

Part No: **30031**

An articulated right hand and wrist used for practicing soft tissue joint injection for the treatment of injuries and arthritis.

Skills

- Patient posture and management
- Identifying anatomical landmarks
- Relevance of digital movement for presentation of injection sites
- Injection in 4 specific areas:
  - carpal tunnel - trigger finger/tendon sheath injection
  - de Quervains sheath - first metacarpal joint
- Precise placement of needle to avoid median nerve

Product Servicing
See page 1

Features

- Articulated joints
- Simulates normal anatomical reference points for:
  - carpal tunnel - palmaris longus tendon
  - distal wrist crease - tendon to the flexor carpi radials
- Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired and when the median nerve has been hit
- Supplied with 'No Trace' marker (non-permanent rapidly fading ink) for illustrating underlying anatomical landmarks

Package supplied

- 1 **'No-Trace' Marker** Part No: **30023**
- 1 **Hand & Wrist Needle Set** Part No: **30092**
- 1 **Hand & Wrist Skin** Part No: **30040**
- 1 Joint and Soft Tissue Injection book
- 1 Hand & Wrist for Joint Injection
- 1 Feedback Console with batteries
- 1 Carry case

Packed weight (lbs) & dimensions (in)	7.9 lb	7.1 l	10.2 w	20.5 h

Knee for Aspiration Mk 2

Part No: **70020**

This specialized model is used for training in the technique of synovial fluid aspiration. Developed in collaboration with Barry Smith and Stephen Stafford of Addenbrooke's Hospital, Cambridge (UK).

Skills

- Patient posture and management
- Palpation techniques
- Identifying anatomical landmarks
- Aspirating synovial fluid from the knee joint from both lateral and medial aspects

Features

- Simplified design for greater ease-of-use
- Quick release skin, musculature and patella (with fat pad) enabling rapid changeover of self sealing synovial sac
- Synovial sac connects easily to the fluid bag
- 1 liter fluid bag enables uninterrupted training sessions

Package supplied

- 1 **Knee Skin Mk 2** Part No: **70021**
- 2 **Knee Aspirant (250ml)** Part No: **70022**
- 1 **Synovial Sac Mk 2** Part No: **70023**
- 1 **'No-Trace' Marker** Part No: **30023**
- 1 **Knee Needle Set** Part No: **30091**
- 1 Joint and Soft Tissue Injection book
- 1 Leg assembly with base
- 1 Metal stand & 1 liter fluid bag
- 1 Carry case

Packed weight (lbs) & dimensions (in)	13.3 lb	12.2 l	11.4 w	23.2 h

Foot & Ankle for Joint Injection

Part No: **30100**

The Foot & Ankle completes the Limbs & Things joint injection range of products. Like the Shoulder, Elbow and Hand & Wrist its purpose is for practicing soft tissue injection for the treatment of injuries and arthritis. This product has been designed in close collaboration with Mr Jim Pickard and Dr Chris Davies from the University of Huddersfield, UK.

Product Servicing
See page 1

Skills

- Patient posture and management
- Palpation techniques
- Identifying anatomical landmarks
- Injection sites for: metatarsophalangeal (MTP) joint, Morton's neuroma, tarsal tunnel, plantar fascia, sinus tarsi, retrocalcaneal bursa, tibiotalar joint, and subtalar joint

Features

- Latex free
- Represents normal anatomy as required for palpation purposes
- Easy-to-use Feedback Console: LEDs light up when correct injection sites have been acquired

Package supplied

- 1 **Foot & Ankle Needle Set** Part No: **30095**
- 1 **Foot & Ankle Skin** Part No: **30101**
- 1 **Foot & Ankle Musculature** Part No: **70102**
- 1 Joint and Soft Tissue Injection book
- 1 Foot & Ankle base anatomy
- 1 Feedback Console with batteries
- 1 Carry case

Packed weight (lbs) & dimensions (in)	8.0 lb	23.2 l	11.2 w	12.2 h

Huddersfield Foot & Ankle for Nerve Block

Part No: **70100**

This new model allows for the practice of common local anesthetic injections required for successful nerve blocks. This product has been designed by Limbs & Things in collaboration with Dr Chris Davies and Mr Jim Pickard from the School of Podiatry at the University of Huddersfield, UK.

Skills

- Nerve blocks:
  - saphenous
  - deep peroneal
  - superficial peroneal
  - tibial
  - sural
  - ray block (digital nerves at metatarsal level)
  - digital nerves

Features

- Represents normal anatomy for palpation purposes
- Big toe has replaceable foam inserts for ring block injections
- Underlying soft tissue (foam) allows for fluid injections
- Skin has zip for easy removal
- Latex free

Package supplied

- 1 **Foot & Ankle Skin** Part No: **30101**
- 1 **Foot & Ankle Musculature** Part No: **70102**
- 1 **Foot & Ankle Ring Block Inserts (Pack of 3)** Part No: **70101**
- 1 Foot & Ankle base anatomy
- 1 Carry case

Packed weight (lbs) & dimensions (in)	7.2 lb	23.2 l	11.0 w	12.2 h

Medical Foot Care Model

Part No: **KKM66**

This model provides training for the simple trimming of nails and callosities by healthcare providers. It also serves as a useful tool for general education regarding basic foot care.

Skills

- Trimming and clipping of toenails: thickened nail, ingrown nail and nail ringworm
- Trimming and removal of callosities
- Trimming and removal of corns
- Foot assessment, shape and anatomical landmarks, tactile pressure examination and vibratory perception
- Foot massaging
- External medicine application

Features

- Replaceable toenails, corns and callosities
- All relevant anatomical landmarks, foot assessment procedures, foot massaging and other day-to-day treatments

Package supplied

- 1 **Foot Care Parts Set** Part No: **KK11273-020**
  Contains:
  - 20 thickened ingrown toenails
  - 20 thickened toenails with ringworm
  - 10 callosities
  - 10 corns
- 1 Foot model with swivel stand

Packed weight (lbs) & dimensions (in)	6.6 lb	13.8 l	9.8 w	7.1 h

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Colonoscopy Training Model

Part No: **KKM40**

For practicing colonoscope handling and techniques. Designed to present a wide range of challenges to trainees performing a colonoscopy; challenges varying from simple and uncomplicated cases to difficult and sensitive variations. It provides the necessary training required to avoid patient pain and discomfort during an examination.

Skills

- Colonoscope insertion and withdrawal
- Insufflation and suction of colon
- Manipulation of colonoscope

Features

- Soft, flexible and airtight colon tube allows for realistic colonoscope insertion and withdrawal
- Colon tube can be made airtight for insufflation and suction
- May be oriented in left lateral, right lateral or supine positions
- The colon tube can be easily positioned within the abdominal shell for the different case studies supplied
- Manual abdominal compression can be practiced by using the supplied abdominal skin
- Colon tube is detachable and easy to clean using only water
- Five different colon layout guides, with six case studies and a training guide, are included

Package supplied

- 1 **Colon-rectum Tube** Part No: **KK11361-010**
- 1 **Anus Unit** Part No: **KK11361-020**
- 1 **Colon Fixture Set** Part No: **KK11361-030**
- 1 **Colon Layout Guide** Part No: **KK11361-120**
- 1 **Concentrated Lubricant Pack** Part No: **KK11361-040**
- 1 **Lubricant Pack** Part No: **KK11361-050**
- 1 Abdominal shell
- 1 Abdominal skin
- 1 Plastic bottle
- 1 Stand
- 1 Rubber sheet
- 1 Instruction manual
- 1 Storage case

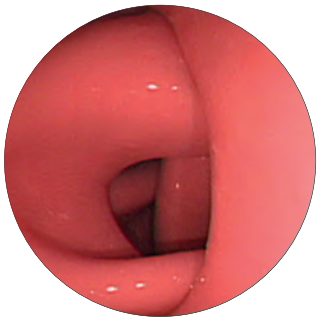
Packed weight (lbs) & dimensions (in)	44.0 lb	19.7 l	11.8 w	28 h

Product details correct at time of going to press. Subject to change.

Introductory level with simple bowel layout

Advanced level with reverse alpha 'loop' bowel formation

Anal sphincter can be closed to create an airtight seal for insufflation and suction



Endoscopic view of colon

KYOTO KAGAKU

Visit our website for more information

Find the product by typing the Part No into the search box

Open Inguinal Hernia Repair Trainer + CD-ROM

Contains software

Part No: **60427**

For training both direct and indirect hernia repair, performed under local anesthetic. Accompanying the Trainer is a multimedia CD-ROM for self-directed learning.

Skills

Repair of direct and indirect inguinal hernias involving:

- Recognition of anatomical landmarks and tissue planes
- Preparing the operating field
- Local anesthesia and abdominal access
- Dissection of the spermatic cord
- Hernia reduction
- Mesh sizing and placement
- Mesh fixation
- Closure

Features

Trainer

- Detailed anatomy incorporating:
  - abdominal wall with the groin crease marked on it
  - fat layer
  - muscle layers (external oblique, transversalis and internal oblique together)
  - ilio-inguinal nerve
  - Scarpa's fascia
  - transversalis fascia
  - peritoneum
  - spermatic cord containing: testicular vessels, vas deferens, indirect hernia and genital branch of the genitor femoral nerve
  - inguinal ligament
- Hernia Blocks are quick and easy to replace during training courses
- Each Hernia Block is supplied with a simulated flat mesh (Mesh is only for training purposes: NOT for clinical use)
- Clamps provided to secure Trainer to edge of bench top
- Compact and portable

CD-ROM

- A self-directed program enabling trainees to learn the process of hernia repair
- Contains a step-by-step approach for both direct and indirect hernia repair, including:
  - patient selection
  - coverage of instruments and materials
  - illustrations to promote anatomical understanding
  - clinical video of the procedure
  - video of a complete open inguinal hernia repair procedure performed on the Limbs & Things model

Package supplied

- 1 **Open Inguinal Hernia Repair Program CD-ROM** Part No: **60428**
- 1 **Open Inguinal Hernia Location Plate** Part No: **60429**
- 1 **Procedure Base** Part No: **60425**
- 1 **Open Inguinal Hernia Block (Pack of 2)** Part No: **60399** (Includes 2 simulated meshes)
- 2 bench top clamps

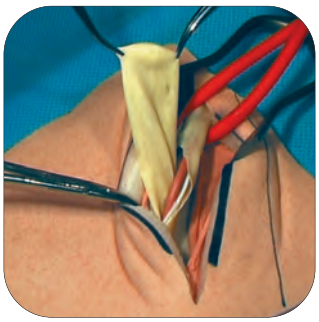
Packed weight (kg) & dimensions (mm)	1.6 kg	290 l	290 w	150 h

Open Inguinal Hernia Repair Trainer without CD-ROM

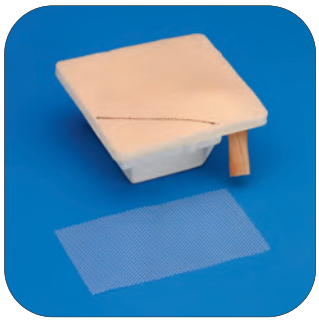
Contents same as **60427** except CD-ROM not included

Part No: **60426**

Packed weight (kg) & dimensions (mm)	1.55 kg	290 l	290 w	150 h



Hernia Block in use showing detailed anatomy



Open Inguinal hernia Block
(with mesh)

Part No: **60399**

TEP Guildford MATTU Hernia Trainer

Part No: **50135**

A unique trainer developed in conjunction with the Guildford (UK) Minimal Access Therapy Technique Unit (MATTU) designed to teach Totally Extra Peritoneal (TEP) Hernia Repair.

Skills

- Recognition and identification of abdominal landmarks
- Use of a balloon catheter
- TEP procedures on femoral and inguinal indirect hernia
- Mesh application, fixing and removal
- Withdrawal and closure

Features

- Very accurate and highly detailed anatomy incorporating
  - testicular, external iliac and inferior epigastric arteries and veins
  - vas deferens
  - lateral femoral cutaneous nerve
  - femoral and genital nerves
  - linea alba and rectus muscle layer
  - peritoneum
- Low cost per use – only elastic connectors need replacing
- Reusable peritoneum can be replaced should damage occur

Package supplied

- 1 **TEP Hernia** Part No: **50109**
- 1 **TEP Hernia Peritoneum** Part No: **50134**
- 1 **TEP Hernia Frame** Part No: **50169**
- 1 **Bag of TEP Hernia Elastic Connectors** Part No: **50121**
- 1 **Perineum & Bowel** Part No: **50104**
- 1 Base

Packed weight (lbs) & dimensions (in)	6.83 lb	18.1 l	14.2 w	10.2 h

Reference:

Mastery learning simulation-based curriculum for laparoscopic TEP inguinal hernia repair. Benjamin Zendejas, David A Cook, Roberto Hernández-Irizarry, Marianne Huebner, David R Farley Department of Surgery, College of Medicine, Mayo Clinic, Rochester, MN, USA. J Surg Educ. ;69 (2):208-14 22365867

TEP Hernia
(includes peritoneum)
Part No: **50109**

TEP Hernia Peritoneum
Part No: **50134**

TEP Hernia Frame
Part No: **50169**

TEP Hernia with peritoneum peeled back revealing anatomy

NEW

IOUSFAN - Abdominal Intraoperative & Laparoscopic Ultrasound Phantom

Part No: **KKMUS-3**

An innovative phantom for simulating intraoperative abdominal ultrasound during open and laparoscopic surgery.

Skills
- Intraoperative ultrasound during open surgery
- Laparoscopic ultrasound

Features
- Detailed hepatobiliary, pancreatic and abdominal anatomy allows for: open intraoperative scanning of the liver, biliary tract, and pancreas; laparoscopic examination of the biliary system for screening of stones and evaluation of hepatic and pancreatic lesions
- Detachable stomach and duodenum allowing various scanning methods of the bile duct and pancreas
- Container allowing water-immersion scanning for both contact and stand-off techniques, simulating real abdominal intraoperative and laparoscopic scanning (no ultrasound gel required)
- Container with phantom fits in the laparoscopic trainer box so that laparoscopic ultrasound of organs is possible under direct laparoscopic view

Package supplied
- 1 Upper abdomen
- 1 Ultrasound phantom
- 1 container for phantom

Packed weight (lbs) & dimensions (in)	19.8 lb	18.5 l	16.5 w	9.8 h

Product details correct at time of going to press. Subject to change.

KYOTO KAGAKU

NEW

T9 Intraoperative Ultrasound System

Part No: **3DT9**

Provides the ideal environment for training in intraoperative ultrasound during laparoscopic surgery.

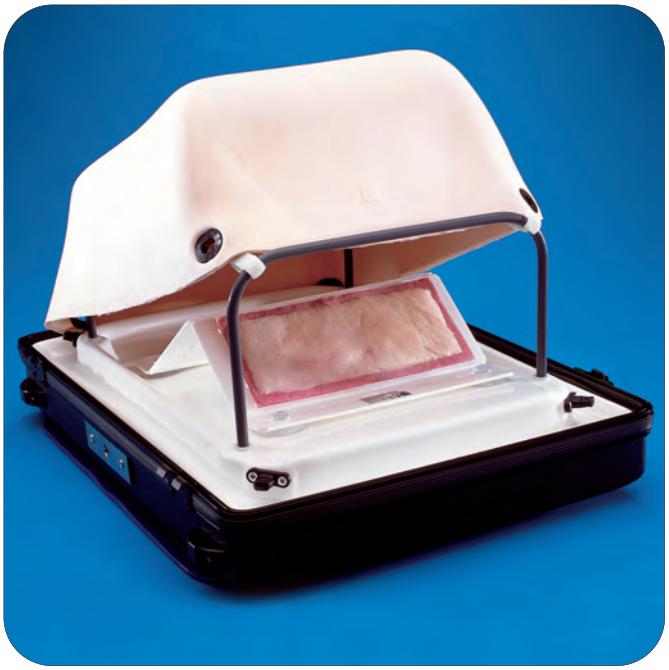
Skills
- Intraoperative ultrasound

Features
- The large size slide-out drawer provides easy access for inserting simulated organs or other practice material into the trainer
- 7 ports with grommets provide flexibility of placementof ultrasound devices (not supplied)
- Includes a SimScope™ (simulated laparoscope), permanently fixed to the body of the trainer, which comes with a zoom feature
- Built-in 10" colour LCD monitor folds down flat for transport

Package supplied
- 1 Large body trainer
- 1 SimScope™

Packed weight (lbs) & dimensions (in)	18 lb	21 l	12.5 w	13.5 h

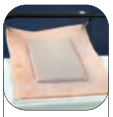
3-DMED



MATT Trainer with abdominal wall removed showing a Small Surgical Dissection Pad mounted on the Soft Tissue Retaining Set, with an endoscopic camera held by the Laparoscopic Arm

Use with these products

PAGE 67


PAGE 68

PAGE 68

PAGE 70

PAGE 71

PAGE 50

PAGE 69

Minimal Access Therapy Technique (MATT) Trainer - Standard

Part No: **50150**

A portable laparoscopic technique trainer for structured and staged 'hands-on' training.

The carrying case unfolds to provide an integral work surface and tray in the base, and storage compartment in the lid. The base unit, onto which the Soft Tissue Retaining Set can be placed for the presentation of soft tissue components, can be used for open surgical practise, or with the frame and abdominal wall in place, for laparoscopic technique training.

A wide range of Limbs & Things synthetic soft tissue components can be introduced to teach techniques in line with the trainees' clinical progression, and their chosen specialty.

Skills

- Hand-eye coordination
- Use of laparoscopic instruments (not supplied)
- Techniques and skills depending on the synthetic soft tissue component presented (pages 68-71).

Features

- Includes 2 Small Surgical Dissection Pads (page 68), which allows you to practice seven core laparoscopic techniques
- Includes the easy-to-use and versatile Soft Tissue Retaining Set (page 66)
- Unique Limbs & Things Abdominal Wall enables the trochar and instruments to be triangulated freely; instruments can be placed laterally as well as ventrally
- Durable Abdominal Wall enables the repeated introduction of instruments and the sealing of their port holes after use
- Easy to clean and maintain
- Supplied with the Laparoscopic Arm which holds scopes and other instruments (5-14mm diameter) securely and safely allowing trainees to work alone
- Portable
- Cost effective
- Easy to clean and maintain
- Supplied with a non-slip mat
- Suitable for wet and dry skills laboratory work

Package supplied

- 1 **Laparoscopic Arm** Part No: **50147**
- 1 **MATT Abdominal Wall** Part No: **50146**
- 1 **Soft Tissue Retaining Set** Part No: **50151**
- 2 **Small Surgical Dissection Pads** Part No: **50118**
- 1 Carry case with base, frame & securing clips
- 1 Non-slip mat
- 1 Tube of port hole sealant

Packed weight (lbs) & dimensions (in)	16.5 lb	20.1 l	16.1 w	7.87 h

T3-J MITS

Part No: **3DT3-J**

The Standard Multi-Disciplinary Laparoscopic Trainer comes with a monitor and a joystick camera scope control on the outside of the trainer.

Skills
- Hand-eye coordination
- Use of laparoscopic instruments
- Techniques and skills depending on the laparoscopic product used inside the Trainer

Features
- No assembly required
- 10" LCD color monitor
- Inside Camera Mount or with a Joystick Scope Control
- Large side openings
- Self-contained & portable
- Holds a 10mm trocar (not included)
- Sturdy, comfortable handle is located on the back
- 7 ports can be fitted with 5 or 10mm grommets

Package supplied
- 1 10" LCD Color Monitor
- 1 Trainer Box
- 1 JoyStick Scope Control

Packed weight (lbs) & dimensions (in)	18.7 lb	16.5 l	18.1 w	26 h

T5 MITS

with 0º SimScope™ Part No: **3DT5**

with 30º SimScope™ Part No: **3DT5subCAM-30**

with 0º & 30º SimScope™ Part No: **3DT5+CAM-30**

A laparoscopic trainer with a built-in endoscopic camera and monitor system.

Skills
- Hand-eye coordination
- Use of laparoscopic instruments
- Techniques and skills depending on the laparoscopic product used inside the Trainer

Features
- Ports supplied with a mixture of 5mm and 10m aperture grommets to suit different diameter instruments
- Camera Stick can be easily switched between any of the ports
- 10" LCD color monitor built into the lid
- Compact and easy to carry: lid folds down flat and sturdy carry handle is located on the back of the unit

Package supplied
- 1 Laparoscopic trainer
- 1 Camera Stick
- 1 Mains lead

Packed weight (lbs) & dimensions (in)	15 lb	17.5 l	12.5 w	8.5 h

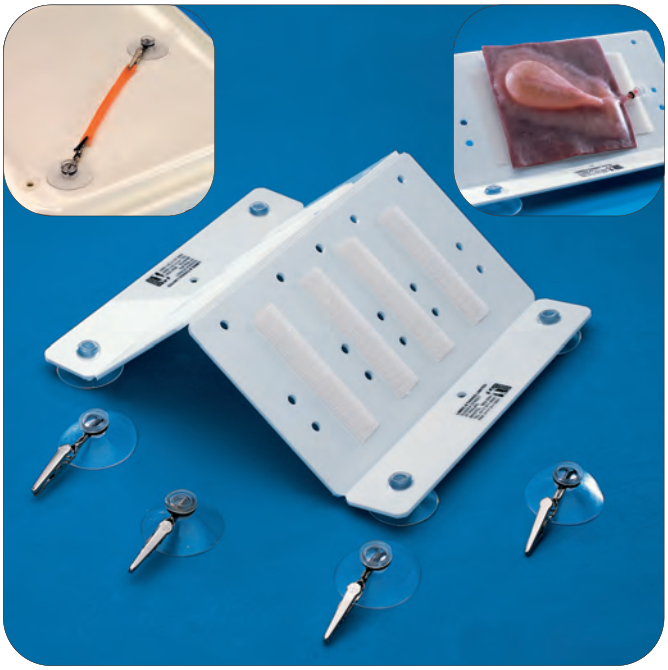
Residents may practice on the 3-Dmed MITS- (Laparoscopic Trainer Box) to acquire the skills incorporated into the FLS modules. However, FLS certification testing must be done at one of the official FLS Test Centers by an FLS proctor using the official FLS Laparoscopic Trainer Box. For more information please visit http://www.flsprogram.org

Digital Video Interface Part No: **3DSSVI07**

The video interface package provides the facility to output the MITS trainer monitor image to multiple sources (PC, monitor, LCD projector) and to record user sessions as a video file on a PC. For more information visit www.limbsandthings.com

Packed weight (lbs) & dimensions (in)	1.5 lb	6.0 l	5.0 w	2.0 h

3-Dmed



Soft Tissue Retaining Set

Part No: **50151**

For securing synthetic soft tissue components used in intermediate surgical training and laparoscopic trainers.

Features

- Retaining clips recommended for use on a smooth work surface or on the variable slope jig to stabilize synthetic:
  - bowel
  - arteries and veins (left inset picture)
  - flat pads
- Variable slope jig allows practice of surgical skills at varying angles for more realistic and/or difficult presentation of components (right inset picture)
- Provides for structured and staged learning
- Easy-to-use and versatile: suction cups allow for easy positioning and removal on smooth surfaces
- Can be fitted into other laparoscopic boxes/trainers
- Hardwearing
- Easy to clean

Package supplied

- 4 retaining clips
- 1 Variable slope jig

Note

This set is included with the MATT Trainer - Standard (page 64)

Packed weight (lbs) & dimensions (in)	0.55 lb	13.8 l	9.45 w	0.39 h

Packed weight (lb) & dimensions (in)				
0.4 lb	6.5 l	6.5 w	1.0 h	

Soft Tissue Practice Pad

Part No: **3DSTPP06-P**
(Pink)

Part No: **3DSTPP06-Y**
(Yellow)

The Soft Tissue Practice Pad provides the experience of practicing suturing skills on realistic tissue.

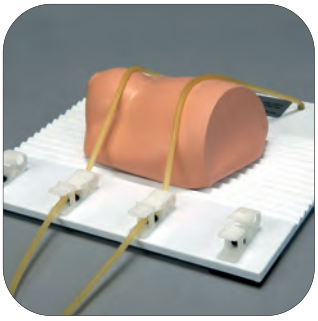
Foam Practice Material

Foam Stomach (Pack of 5)
Part No: **3DFPM04**

Foam Uterus (Pack of 5)
Part No: **3DFPM05**

Foam Lung (Pack of 5)
Part No: **3DFPM06**

Red Foam Tube (6"L x 1"D) (Pack of 5)
Part No: **3DFPM10**



Packed weight (lb) & dimensions (in)				
0.5 lb	7.0 l	7.0 w	2.0 h	

Tissue Mounting Board

Part No: **3DTMB07**

The Tissue Mounting Board is designed to work with a variety of tissues. The surface has grooves to prevent movement of your practice piece. The tubing can be configured in several ways to hold your practice piece secure.

Packed weight (lb) & dimensions (in)				
1.0 lb	8.0 l	8.0 w	4.0 h	

Skill Game Kit

Part No: **3DSKGMKIT**

Allows you to get all four skill games at a reduced price.

3-DMED

Skill Game 1: Loops & Wire

Part No: **3DSKGM1**

Use to develop hand-eye coordination by passing the flexible wire through the loops. The rows are different heights to help develop depth perception. A pair of loops in the front can be used for knot tying.

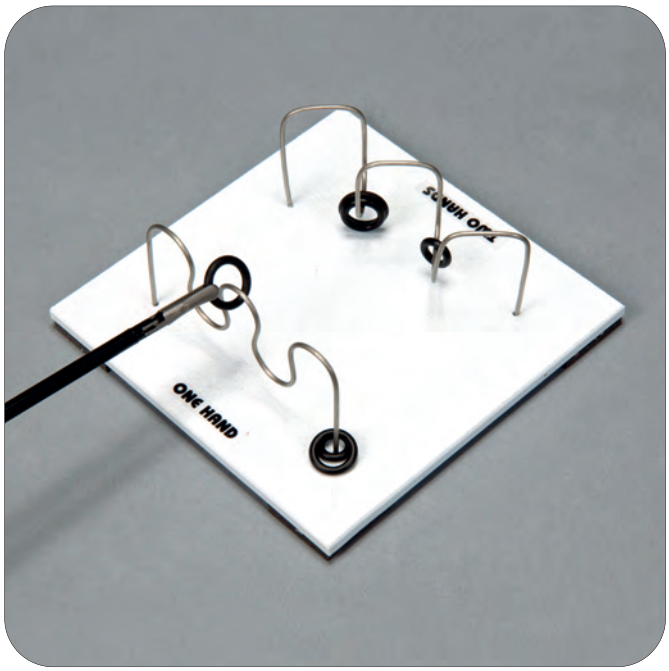
Packed weight (lbs) & dimensions (in)	0.3 lb	5.0 l	5.0 w	3.0 h

Skill Game 2: Pea on a Peg

Part No: **3DSKGM2**

Helps develop depth perception skills. The pegs are at four different heights. Move the beads from the cup to the pegs, or go from peg to peg.

Packed weight (lbs) & dimensions (in)	0.3 lb	5.0 l	5.0 w	3.0 h

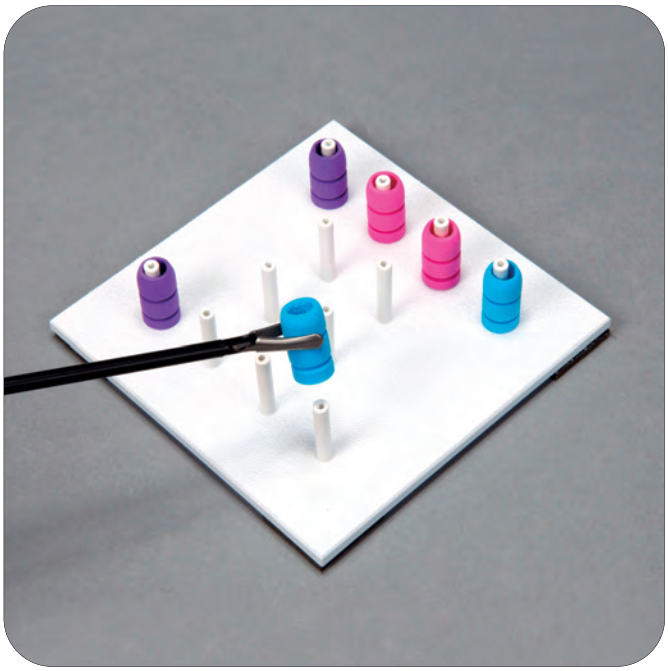


Skill Game 3: Wire Chaser

Part No: **3DSKGM3**

Use to develop hand-eye coordination by passing the rubber ring along the wire without touching it. There are three sizes of ring and two wire patterns suitable for either one- or two-handed challenges.

Packed weight (lbs) & dimensions (in)	0.3 lb	5.0 l	5.0 w	3.0 h

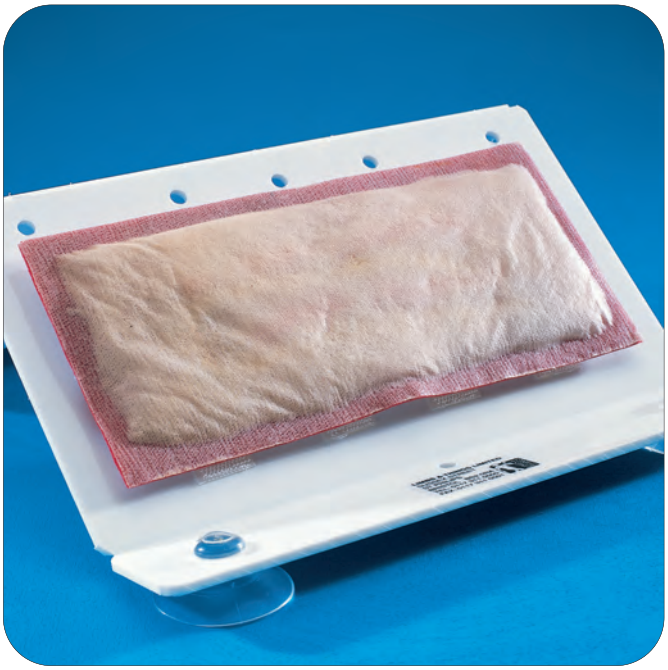


Skill Game 4: Post & Sleeve

Part No: **3DSKGM4**

Use to develop hand-eye coordination by moving the six sleeves from one post to another. This game works for either hand.

Packed weight (lbs) & dimensions (in)	4.0 lb	5.0 l	5.0 w	3.0 h



Small Surgical Dissection Pad

Part No: **50118**

A multi-layered pad with 4 fluid filled vessels for training in the basic surgical techniques, as listed for the Large Surgical Dissection Pad. The lower cost of this pad makes it ideal for individual or two person training; ideally issued to trainees at the start of a course or for self-directed learning.

Skills

See Large Surgical Dissection Pad

Features

(How it differs from the Large Surgical Dissection Pad)

- Contains 2 types of vessel:
  - arterial (2)
  - bile (2)

Package supplied

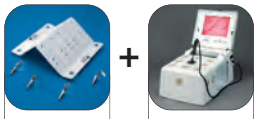
- 1 Small Surgical Dissection Pad

Packed weight (lbs) & dimensions (in)	0.07 lb	8.07 l	3.54 w	0.39 h

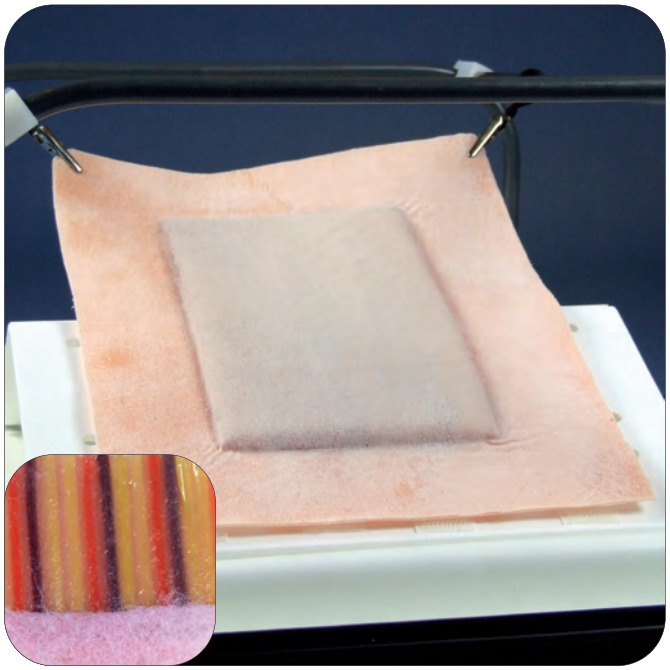
Use with:

PAGE 64

Or this combination:



PAGE 66 + PAGE 65



Large Surgical Dissection Pad

Part No: **50114**

This unique multi-layered pad with 14 fluid filled vessels for training in the seven basic surgical techniques used in open and laparoscopic surgery.

Skills

- Incision
- Dissection
- Division
- Mobilization
- Ligation
- Suturing
- Stapling

Features

- Convincing appearance when viewed through laparoscope
- Provides a realistic response with steel blade laparoscopic instruments or a harmonic scalpel
- Made from patented material which provides for realistic suturing and stapling
- Contains 3 types of vessel: venous (3), arterial (4), bile (7) (inset picture)
- Cost effective and extremely convenient when compared with animal tissue
- Wet laboratory not required

Package supplied

- 1 Large Surgical Dissection Pad

Packed weight (lbs) & dimensions (in)	0.25 lb	0.25 l	7.48 w	0.39 h

Use with:

PAGE 64

Or this combination:

PAGE 66 + PAGE 65

Gynae Dissection Pad

Part No: **50116**

An intermediate laparoscopic technique trainer for gynecological surgery. The round and broad ligaments, ureters and uterine artery are represented in 3 dimensions.

Skills

- Dissection of the round and broad ligament
- Division of tissues in two planes
- Arterial ligation
- Vessel cutting
- Identification of ureters and uterine artery, and their mobilization
- Suturing and stapling in two planes

Features

- Made from patented Limbs & Things material which provides for realistic suturing and stapling
- The pad can be used up to 5 times for gynae technique practice and afterwards for other basic skills training
- Contains one each of arterial and ureteric vessels: there are 5 crossing points - artery over ureter (inset picture)
- All tissue layers provide a realistic image through the laparoscope, and response with instruments
- Cost effective, convenient and hygienic

Package supplied

- 1 Gynae Dissection Pad

Packed weight (lbs) & dimensions (in)	0.1 lb	8.07 l	3.54 w	0.39 h

Use with

PAGE 64

Ectopic Pregnancy

Part No: **60315** RESECTABLE PRODUCT

For practicing the removal of an ectopic pregnancy using diathermy, laser and other monopolar electrocautery techniques and standard instruments.

Skills

- Surgical opening of the fallopian tube (salpingostomy)
- Removal of an ectopic pregnancy (inset picture)
- Surgical excision of a fallopian tube (salpingectomy)

Features

- Latex free
- Cost effective – contains three ectopic pregnancies
- Provides a realistic response with instruments
- Recommended as the 'Gold Standard' for training following research conducted by two UK hospitals

Package supplied

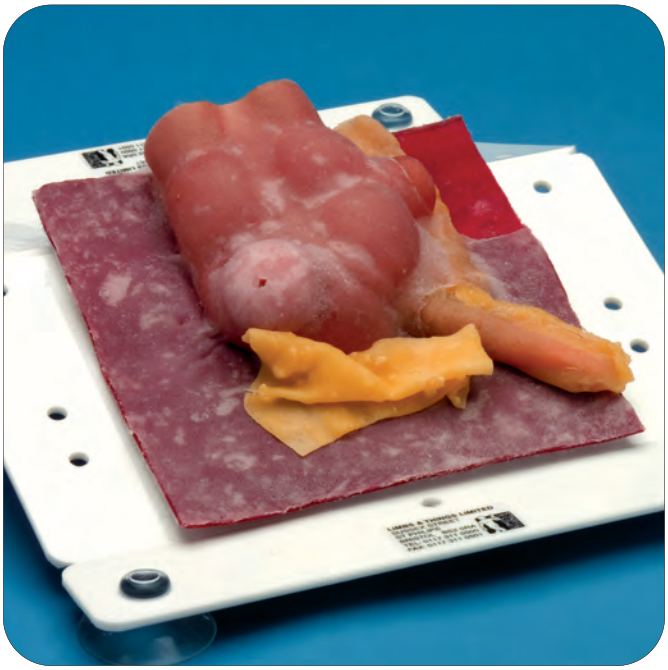
- 1 'sheet' containing 3 ectopic pregnancies

See website for resectable product guidelines.

Packed weight (lbs) & dimensions (in)	0.21 lb	6.3 l	4.33 w	2.36 h

Use with

PAGE 64



Vermiform Appendix

For practicing the laparoscopic removal of the vermiform appendix. There are 3 variations of this model which present the appendix in the following positions:

- normal (as found in 32% of patients)
- post-ileal (as found 1% of patients)
- retrocaecal (as found 64% of patients)

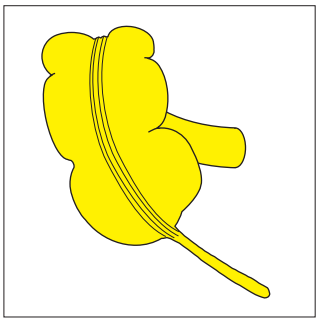
Each model has the additional feature of a simulated peptic ulcer, for closure using peritoneum and mesentry.

Skills

- Excision and division of peritoneum
- Identification and exposure of appendix
- Mobilization and division of vessels
- Removal of appendix
- Inspection of stump of appendix
- Repair and closure of peptic ulcer

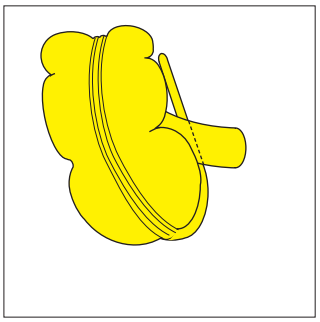
Features

- Highly realistic model of appendix, caecum, and ileum stump presented anatomically
- The variations available in the range of appendices provide increased levels of difficulty
- Convincing fluid filled vessels, caecum contents, and tissues encourage correct handling of tissue
- Vessel incorporates a luer lock to which the **Mock Blood Giving Set** Part No: **60651** may be attached to provide fluid flow for the appendicular artery. Use **Mock Blood - Arterial (250ml)** Part No: **60653**
- Ideal for training course requirements; the model is designed for swift attachment to and removal from the Soft Tissue Retaining Set (page 66)
- Use within MATT Trainer - Standard (page 64), 3-Dmed Laparoscopic Trainers (page 65)



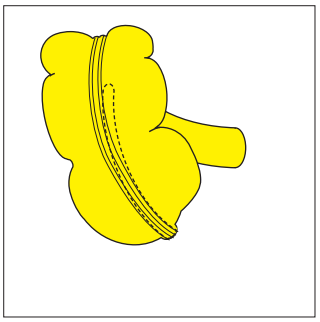
Vermiform Appendix - Normal Anatomy

Part No: **50122**



Vermiform Appendix - Post-ileal

Part No: **50123**



Vermiform Appendix - Retrocaecal

Part No: **50124**

All products:

Packed weight (lbs) & dimensions (in)	0.22 lb	12.6 l	7.87 w	0.79 h

Use with:

PAGE 64

PAGE 31

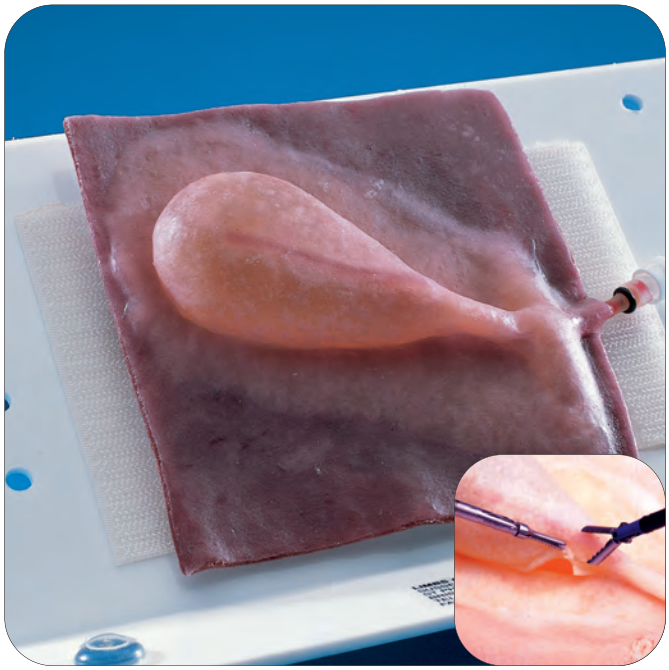
PAGE 31

Or this combination:

PAGE 66

+

PAGE 65



Gall Bladders

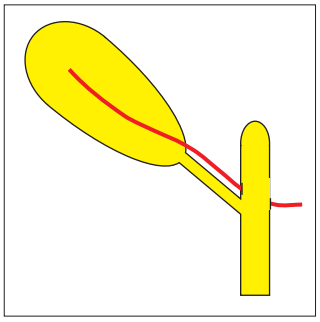
A series of four highly realistic models of increasing complexity for structured and staged training in gall bladder removal. Trainees progress from the Surgical Dissection Pads (page 68) to this range of Gall Bladders.

Skills

- Incision and dissection of the visceral peritoneal layer
- Division and mobilization of vessels
- Ligation of cystic artery and cystic duct
- Removal of gall bladder
- Visualization and recognition of anatomical landmarks and organ variations
- All 7 skills defined for the Surgical Dissection Pad, within this procedure
- Cholangiogram catheter insertion and stone retrieval

Features

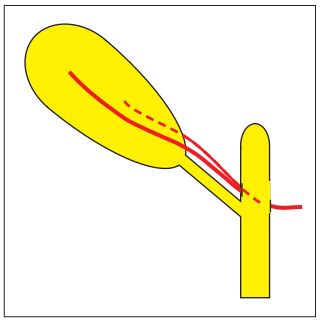
- Highly realistic - viewed through the laparoscope, and the tissue response to cutting and dissection is convincing (inset picture)
- The four variations of gall bladder provide increased levels of difficulty, and the element of surprise is introduced & controlled
- When running a course, the used component can be removed and replaced with a new one in seconds
- All vessels and the gall bladder are fluid filled
- Incorporates a luer lock to which the **Mock Blood Giving Set** Part No: **60651** may be attached to provide fluid flow for the cystic artery. Use **Mock Blood - Arterial (250ml)** Part No: **60653**
- Use within MATT Trainer - Standard (page 64), 3-Dmed Laparoscopic Trainers (page 65)



Gall Bladder with Normal Anatomy

Part No: **50127**

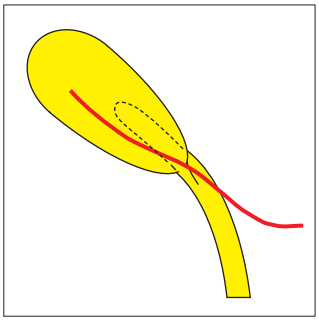
Packed weight (lb) & dimensions (in)			
0.18 lb	5.51 l	4.72 w	1.57 h



Gall Bladder with Bifurcated Cystic Artery

Part No: **50128**

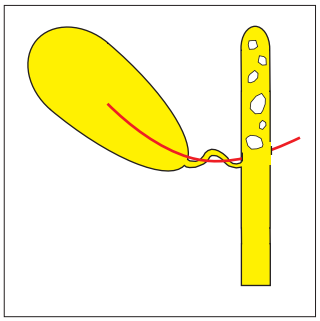
Packed weight (lb) & dimensions (in)			
0.18 lb	5.51 l	4.72 w	1.57 h



Gall Bladder with Short Cystic Duct

Part No: **50129**

Packed weight (lb) & dimensions (in)			
0.18 lb	5.51 l	4.72 w	1.57 h



Gall Bladder with Wide Common Bile Duct & Stones for Exploration

Part No: **50132**

Packed weight (lb) & dimensions (in)			
0.24 lb	7.09 l	4.33 w	1.57 h

Use with:

PAGE 64

PAGE 31

PAGE 31

Or this combination:

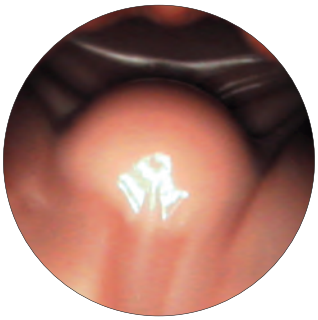
PAGE 66

+

PAGE 65

Top right: Internal view of Diagnostic Uterus with Polyps

Bottom right: Internal view of Diagnostic Uterus with Fibroid



Hysteroscopic Diagnostic Trainer

Part No: **60326**

A comprehensive intra-uterine examination training system with a variety of uteri to teach instrument handling and diagnosis. Used for Basic Surgical Skills training at the Royal College of Obstetricians and Gynecologists, London (UK).

Skills

- Insertion, manipulation and removal of instruments
- Recognition of uterine abnormalities
- Performing a punch biopsy

Features

- Latex free
- Presents anatomy prepared for diagnostic procedure; os and cervix dilated ready for insertion of instruments
- Uteri are long-lasting when used only for diagnosis and examination
- Uteri can be biopsied and replaced when necessary
- Accurate pathologies
- Non biological: no hygiene issues or problems
- Dilated Translucent Uterus allows demonstration of instrument manipulation

See website for resectable product guidelines.

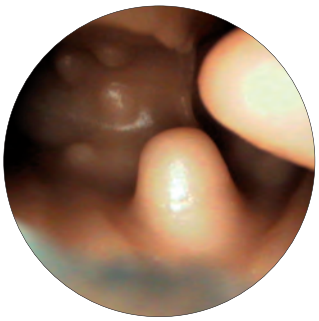
Package supplied

- 1 **Diagnostic Uterus with Normal Anatomy** Part No: **60322**
- 1 **Diagnostic Uterus with Polyps** Part No: **60312**
- 1 **Diagnostic Uterus with Fibroid** Part No: **60313**
- 1 **Dilated Translucent Uterus** Part No: **60316**
- 1 **Uterus Clamp** Part No: **60334**
- 1 **Universal Base** Part No: **60325**

Packed weight (lbs) & dimensions (in)	5.7 lb	9.8 l	16.9 w	21.7 h

Top right: Internal view of Resectable Uterus with Fibroid

Bottom right: Internal view of Resectable Uterus with Polyps, Fibroid & Septum



Hysteroscopic Resection Trainer

Part No: **60324** RESECTABLE PRODUCT

Having acquired the pertinent skills on the Hysteroscopic Diagnostic Trainer, treatment of the identified pathologies can then be performed using the Hysteroscopic Resection Trainer.

Skills

- Instrument handling
- Fluid management
- Identification and recognition of fibroids, polyps and a septum under fluid management
- Resection skills within an anatomical structure

Features

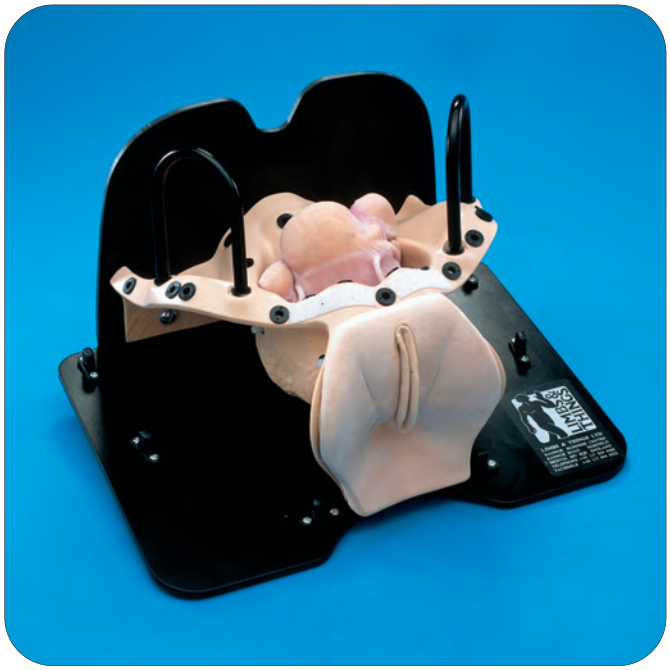
- Latex free
- The proprietary material provides a realistic hysteroscope image and response with resecting instruments
- Minimal cleaning and maintenance required
- Incorporates a simple but effective irrigation and drainage system to contain operative liquids
- A clamp stabilizes the uterus while providing adequate mobility when using the hysteroscope

See website for resectable product guidelines.

Package supplied

- 1 **Resectable Uterus with Polyps, Fibroid & Septum** Part No: **60321**
- 1 **Resectable Uterus with Fibroid** Part No: **60323**
- 1 **Uterus Clamp** Part No: **60334**
- 1 **Universal Base Splash Shield** Part No: **60329**
- 1 **Universal Base** Part No: **60325**
- 1 **Universal Base Drainer** Part No: **60327**
- 1 **Helix Connectors (Pack of 10)** Part No: **90100**

Packed weight (lbs) & dimensions (in)	5.95 lb	18.1 l	14.2 w	10.2 h



Surgical Female Pelvic Trainer (SFPT) with Advanced Surgical Uterus

for Laparoscopic Procedures Part No: **60283**

for Open Procedures Part No: **60299**

An advanced model for learning a wide range of laparoscopic gynecological techniques and procedures including removal of myomae, cysts and ectopic pregnancy and for LAVH. The Advanced Surgical Uterus is not designed to be used with diathermy equipment, but works with harmonics.

Skills

- Management of surgical techniques within the confines of accurate pelvic anatomy
- The Advanced Surgical Uterus contains a number of pathologies for removal: 2 myomae, 1 ovarian cyst, 1 ectopic pregnancy
- Laparoscopically assisted vaginal hysterectomy (LAVH)

Features

- The Advanced Surgical Uterus:
  - has highly realistic, accurate anatomy including fluid filled vessels
  - provides lifelike visualization and instrument response
- For more information visit the product page on our website

Package supplied

Varies depending upon version of product

Packed weight (lbs) & dimensions (in)	8.1	lb	21.7	l	16.9 w	9.8	h

Far left: Abdominal wall removed showing Advanced Surgical Uterus and Skin Support Hoops in place

Left: Trainer with abdominal wall secured in place

Advanced Surgical Uterus

Part No: **60287**

Contains:
2 myomae
1 ovarian cyst
1 ectopic pregnancy

SFPT Perineum & Bowel

Part No: **50119**

Helix Connectors

Part No: **90100**

Insufflated Female Abdominal Wall

Part No: **60265**

Skin Support Hoops

Part No: **60284**

Urethral Sling Procedure Trainer

Part No: **60700**

This model has been designed to practice the placement of synthetic pubourethral slings for the treatment of stress urinary incontinence. It works with all major sling systems excluding trans-obturator.

Skills

- Patient posture and management
- Identifying anatomical landmarks
- Insertion of sling introducers/needles transvaginally and abdominally
- Use of guide systems and rigid catheter

Features

- Abdominal wall viewing port, light and mirror to allow the user to see the insertion of the device during the procedure
- Fascia held under tension providing a highly realistic level of resistance to the introducers/needles
- Realistic abdominal wall
- Soft perineum and labia
- Realistic urethra and bladder
- Representation of iliac arteries and veins to demonstrate the location of anatomical landmarks and potential pitfalls
- Fascia and perineum/vaginal assembly can be replaced making the model highly cost effective

Package supplied

- 1 **Vagina & Bladder Assembly** Part No: **60710**
- 1 **Vaginal & Abdominal Sheath** Part No: **60720**
- 1 **Abdominal Skin** Part No: **60730**
- 1 Base

Packed weight (lbs) & dimensions (in)	8.4 lb	9.8 l	16.9 w	21.7 h

Cordocentesis Trainer

Part No: **60203**

A simulation of a gravid abdomen for learning percutaneous umbilical blood sampling (cordocentesis).

Skills

- Familiarization and use of ultrasound equipment
- Identification of ultrasound calling signals
- Recognition of placental/fetal cord
- Needle insertion and placement under ultrasound
- Withdrawal of fetal blood

Features

- Excellent image and realism used with any ultrasound equipment
- Contains a fetal cord, filled with mock blood, suspended in gel (does not include fetus)
- Includes 2 placentas, one on the anterior and the other on posterior aspect, enabling both direct and transplacental approaches to the cord
- The mock blood in the fetal cord can be replenished
- Can be used for needle insertion and placement for amniocentesis training, however no fluid can be withdrawn from the amniotic sac
- Self-sealing abdomen and cord can be pierced repeatedly providing a durable, long-lasting and cost effective model

Package supplied

- 1 **Cordocentesis Abdomen** Part No: **60204**
- 1 **Mock Blood - Venous (250ml)** Part No: **00223**
- 1 Base

Packed weight (lbs) & dimensions (in)	12.7 lb	9.8 l	16.9 w	21.7 h

SPACEFAN-ST Fetal Ultrasound Examination Trainer

Part No: **KKUS-7**

The SPACEFAN-ST provides high quality training for second trimester screening. The phantom contains a 23 week fetus with full anatomy placed in the uterus that can be scanned with 2D and 3D transducers.

Skills

- Fetal size assessment:
  - biparietal diameter (BPD)
  - abdominal diameter (AD)
  - abdominal circumference (AC)
  - femur length (FL)
- Confirmation of normal fetus situs
- Fetal anatomy assessment: head and brain, heart and lung, abdominal organs, spine and bones
- Placental localization
- Evaluation of amniotic fluid volume

Features

- Oval shape phantom abdomen can be set in four different positions
- Life-size fetus model facilitates demonstration and three dimensional understanding
- Uterus anatomy: amniotic fluid, placenta, umbilical cord, 23 week fetus (26cm)
- Fetus anatomy: brain with septum lucidum, heart with four chambers, lungs, spleen, kidneys, aorta, umbilical vein (UV), umbilical artery (UA), and external genitalia

Package supplied

- 1 Mother torso
- 1 Ultrasound pregnant uterus phantom
- 1 Fetus demonstration model
- 1 Carry case

Packed weight (lb) & dimensions (in)	35.2 lb	25.6 l	18.9 w	18.9 h

The phantom abdomen is easily removable and can be set in four positions to represent different fetus positions

Lifesize fetus model is included

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Biparietal diameter (BPD)

Abdominal circumference (AC)

Heart with four chambers

Umbilical cord

PROMPT Birthing Simulator

Improve your childbirth training outcomes with this ground-breaking product. Incorporates the following unique combination of features:

Mother
- Anatomically correct bony pelvis modelled from CT scan data
- Realistic pelvic floor musculature
- Stretchable perineum
- Removable abdominal skin for visualization of fetal positions
- Articulated thighs for multiple maneuvers and positions
- Lubrication to facilitate realistic birthing process
- Straps to secure Birthing Mother to delivery bed

Standard Baby
- Newborn size and weight
- Fully articulated limbs for multiple maneuvers and positions
- Palpable fontanelles and suture lines
- Palpable clavicles and scapulae
- Detachable placenta with umbilical cord

Force Monitoring Baby *(in addition to the Standard features)*
- Fitted with an electronic strain gauge
- Supplied with computer software package for simultaneous force display, measurement and recording of data for shoulder dystocia management

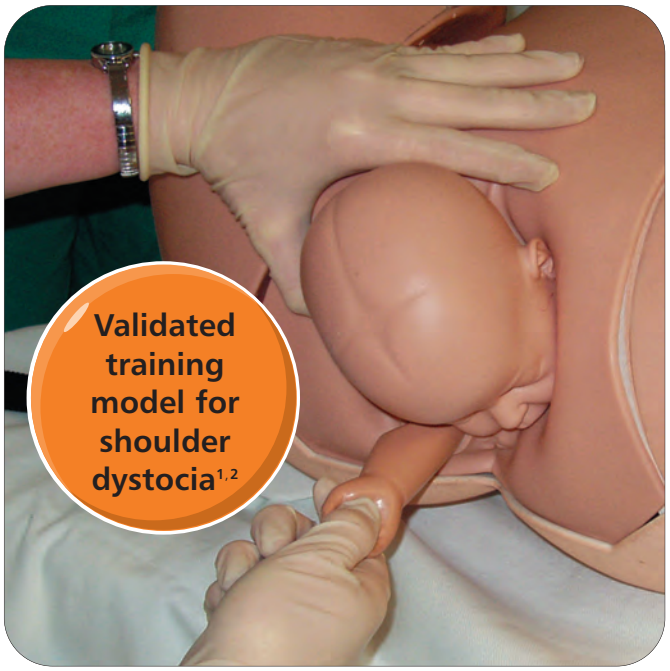
Developed with healthcare professionals
- Recently used for a UK Department of Health funded study, SaFE (Simulation and Fire-drill Evaluation). **During the study, the midwives and obstetricians who received training using a prototype demonstrated a significant objective improvement in the management of simulated shoulder dystocia**[1]
- An integral part of the PROMPT (PRactical Obstetric Multi Professional Training) course
- Developed in conjunction with midwives and obstetricians from Southmead Hospital, Bristol (UK) and Gloucestershire Royal Hospital (UK)[2]
- Studies indicate that when forces of over 100N are applied to the baby by the accoucheur during delivery, obstetric brachial plexus injury (OBPI) can occur. The Force Monitoring system allows the force applied to be monitored[3]

Medico-legal justification
- Annual drill training for the management of shoulder dystocia is a requirement for the maternity Clinical Negligence Scheme for Trusts (CNST) level II in the UK, and is recommended by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO) in the USA

[1] *Training for Shoulder Dystocia: A Trial of Simulation Using Low-Fidelity and High-Fidelity Mannequins* Joanna F. Crofts, Christine Bartlett, Denise Ellis, Linda P. Hunt, Robert Fox, and Timothy J. Draycott. Obstet. Gynecol. 2006; 108(6): p. 1477-1485

[2] *Shoulder dystocia training using a new birth training mannequin* Joanna F Crofts, Georgios Attilakos, Mike Read, Thabani Sibanda, Timothy J Draycott. RCOG 2005 BJOG: an International Journal of Obstetrics and Gynaecology 112, pp. 1-3

[3] *Risk Factors for Shoulder Dystocia: an engineering study of clinician-applied forces* Allen R, Sorab J, Gonik B. Dept of Mechanical Engineering, University of Delaware, Newark. Obstet. Gynecol. 191 Mar;77 (3) :352-5



Top: Delivery of posterior arm with Shoulder Dystocia

Top: Normal delivery
Middle: Forceps delivery
Bottom: Delivery of placenta

Top: Ventouse delivery
Middle: Breech delivery
Bottom: Mother on all fours delivery

PROMPT Birthing Simulator Standard

Episiotomy Part No: **80000**

Non-Episiotomy Part No: **80001**

Skills

- Normal delivery
- Breech delivery
- Delivery on all fours
- Shoulder dystocia management
- Vacuum delivery
- Delivery of placenta
- Forceps delivery: traction and rotational deliveries

Features

Baby

- Latex free
- Fully articulated body
- Weight 5.1 lbs / 2.3 kg
- Detachable placenta with cord
- Palpable fontanelles and suture lines
- Palpable clavicles and scapulae

Mother

- Latex free
- Movable legs to simulate multiple positions:
  - semi-recumbent
  - Lithotomy position
  - McRoberts' position
  - all fours position
- Realistic bony pelvis modeled from MRI scan data
- Detachable abdominal and perineal skin to enable visualization of internal maneuvers and fetal positioning during training
- Durable, stretchable skin and perineal musculature
- Base has straps for attaching to table or delivery bed
- Opportunity for patient/actor integration with Birthing Mother in training sessions

Packed weight (lbs) & dimensions (in)	42.3 lb	17.7 l	17.7 w	23.6 h

PROMPT Birthing Simulator Force Monitoring

Contains software

Episiotomy Part No: **80005**

Non-Episiotomy Part No: **80006**

Skills

- Normal delivery
- Breech delivery
- Delivery on all fours
- Shoulder dystocia management
- Vacuum delivery
- Delivery of placenta
- Forceps delivery: traction and rotational deliveries

Features

Baby

- See Baby for PROMPT Birthing Simulator - Standard
- Additional features for Force Monitoring version:
  - fitted with an electronic strain gauge
  - supplied with software package for simultaneous force display, measurement and recording of data for shoulder dystocia management
  - user definable text allows interventions, delivery scenarios, properties, to be edited into users native language

Mother

- Latex free
- Movable legs to simulate multiple positions:
  - semi-recumbent
  - Lithotomy position
  - McRoberts' position
  - all fours position
- Realistic bony pelvis modeled from MRI scan data
- Detachable abdominal and perineal skin to enable visualization of internal maneuvers and fetal positioning during training
- Durable, stretchable skin and perineal musculature
- Base has straps for attaching to table or delivery bed
- Opportunity for patient/actor integration with Birthing Mother in training sessions

Packed weight (lbs) & dimensions (in)	43 lb	17.7 l	17.7 w	23.6 h

PROMPT Birthing Simulator - Value Set

Episiotomy Part No: **80010**

Non-Episiotomy Part No: **80011**

Contains software

This cost effective set includes both the Standard and Force Monitoring Simulators. It is the ideal package for training centers running simultaneous 'normal' and 'difficult' birthing stations in a workshop or training environment.

Package supplied

- 2 **SimMom & PROMPT Birthing Lubricant (250ml)** Part No: **10193**
- 2 **Birthing Placenta** Part No: **80023**
- 1 **Birthing Baby - Force Monitoring** Part No: **80022**
- 1 **Birthing Baby - Standard** Part No: **80021**
- 2 **Birthing Mother** Part No: **80020**
  - 2 **Birthing Abdomen & Perineum**
  - 2 **Birthing Perineal Muscles** Part No: **80026**
  - 2 **Removable Base & Straps** Part No: **80030**
- 1 **Force Monitoring Software** Part No: **80028**
- 2 Carry cases

Packed weight (lbs) & dimensions (in)	74.5 lb	17.7 l	17.7 w	47.2 h

PROMPT Perineum Upgrade Kit Part No: 90500

Allows for new style Birthing Abdomen & Perineums (with popper attachments) to be fitted to earlier Birthing Mothers with plastic screw fixings. For more information visit www.limbsandthings.com.

Packed weight (lbs) & dimensions (in)	0.2 lb	7.3 l	8.0 w	1.0 h

Birthing Baby - Standard
Part No: **80021**

Birthing Baby - Force Monitoring
Part No: **80022**

Birthing Placenta
Part No: **80023**

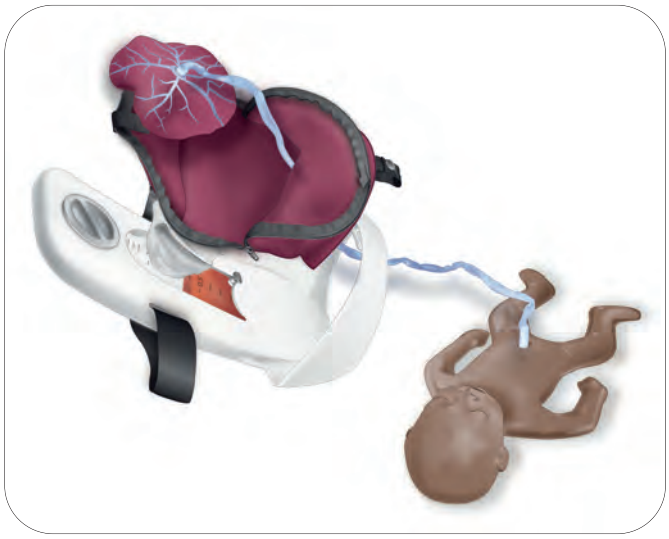
Birthing Mother
Part No: **80020**

Birthing Abdomen & Perineum - Episiotomy
Part No: **80024**

Non-Episiotomy Birthing Abdomen & Perineum
Part No: **80025**

SimMom & PROMPT Birthing Lubricant (250ml)
Part No: **10193**

Birthing Perineal Muscles
Part No: **80026**



The baby, umbilical cord and placenta fit inside the uterus which then attaches to the blood tank/pelvic shell

Package supplied

MamaNatalie Birthing Simulator

Part No: **LD340-00233 (Dark)**
Part No: **LD340-00333 (Light)**

The MamaNatalie birthing simulator complete with NeoNatalie newborn baby provides realistic and affordable training in maternal and newborn care.

Skills

- Delivery of placenta (including partially and fully retained)
- Fetal heart rate monitoring using Pinard's stethoscope
- Urinary catheterization
- Breech delivery
- Vacuum delivery
- Oxytocin injection
- Controlled cord traction
- Postpartum hemorrhage management
- Develops communication skills

Features

- Instructor can manually control:
  - fetal heart sounds
  - delivery of placenta
  - baby positions in birth tract
  - uterine firmness
  - intensity of bleeding and volume of blood loss
- Highly affordable, portable and easy to use
- Quickly ready for use in any setting
- Simulate bleeding of up to 1.5 liters
- Easily manipulate the condition of the uterus (from boggy to well contracted, and any condition in between)
- MamaNatalie comes with NeoNatalie newborn simulator in either dark or light complexion
- NeoNatalie can be filled with lukewarm water to reproduce the natural weight, feel and touch of a new baby

Package supplied

- MamaNatalie birthing simulator:
  - Placenta & umbilical cord
  - Blood concentrate
  - NeoNatalie Suction
  - 2 pairs of gloves (1 normal, 1 long)
  - Fetal stethoscope
  - Fluid collection tray
  - Fluid drain
  - Urinary catheter
  - 20 ml syringe
  - NeoNatalie skull with fontanelles
  - Backpack
  - User Guide
- NeoNatalie newborn simulator:
  - Squeeze bulbs for simulation of birth cries, spontaneous breathing, palpable umbilical pulse and auscultation of heart sounds
  - Umbilical cord
  - 2 umbilical ties
  - Sheets (simulated towels)
  - Head cap
  - Storage/carrying pouch
  - User Guide

Packed weight (lb) & dimensions (in)	11.9	lb	25.2	l	11.8	w	12.6 h

Laerdal helping save lives

Normal birthing scenario with instructor controlling Patient Monitor display

SimMom™

SimMom is an advanced full body birthing simulator with accurate anatomy and functionality to facilitate Interprofessional Education within obstetric training scenarios.

Part No: **10000** **SimMom Advanced + complete peripheral kit**

Part No: **10001** **SimMom Advanced + standard peripheral kit**

Easy to use
Simple operation allows users to build basic to advanced level scenarios appropriate for required learning objectives.

Realism
SimMom provides for the realistic practice of multiple delivery positions and maneuvers, teamwork, leadership and communication skills in a risk-free environment. Uterus modules add further realism and extend the application of the simulator.

Standardized and consistent learning
Pre-programmed scenarios provide standardized training for consistent quality patient care. Customizable scenarios and real time instructor controls allow for scenario adaptation to accommodate individual student or team needs.

Multipurpose
SimMom can be used as a task trainer or as a full body simulator. In addition, it can be used for non-obstetric training as well as a female pregnant simulator.

With a range of Technical and Educational Services, as well as pre-programmed scenarios to ease educator preparation time, SimMom provides the optimal simulation experience.

Developed in partnership:

Limbs & Things
Skills training products for healthcare professionals

Laerdal
helping save lives

SimMom Graphical User Interface
- Controlled via the Instructor PC:
  - highly configurable
  - easy to operate and control mother and fetal vital signs
  - run on-the-fly, customized or pre-programmed scenarios

Contact your local Regional Account Manager or our Customer Service Team on 912 620 0357 to discuss the full range of SimMom options, including: User Training, Extended Warranty and Maintenance Contracts.

Births, assisted deliveries & drills
- Normal births
- Vaginal breech births
- Assisted deliveries:
  - forceps
  - vacuum
- Shoulder dystocia
- Cord prolapse
- Eclampsia & pre-eclampsia
- Maternal collapse
- Post Partum Hemorrhage
- Sepsis
- Uterine inversion
- Ruptured uterus

Movement
- Seizure
- Able to position on all fours:
  - realistic rotation of the shoulder and hip joints
  - legs bend at the knees
  - arms bend at the elbow
- Other positions:
  - supine
  - semi-recumbent
  - left lateral
  - lithotomy
  - McRoberts position

Airway features
- Obstructed airway
- Tongue edema
- Right lung, left lung and both lung blockage
- Head tilt/chin lift
- Jaw thrust
- Suctioning techniques (oral and nasopharyngeal)
- Bag-Valve-Mask ventilation
- Oropharyngeal and nasopharyngeal intubation
- Combitube, LMA and other airway device placement
- Endotracheal intubation (ET)
- Retrograde intubation
- Nasal and oral fiberoptic intubation
- Trans-Tracheal jet ventilation
- Right mainstem intubation
- Surgical and needle cricothyrotomy
- Chest tube insertion

Pelvic components
- Atonic uterus modules (for post partum hemorrhage, uterine inversion and retained placenta)
- Fluids (blood, stained amniotic fluid and urine)
- Bladder catheterization & filling

Breathing features
- Simulated spontaneous breathing
- Variable respiratory rates
- Bilateral and unilateral chest rise and fall
- Normal and abnormal breath sounds:
  - 4 anterior auscultation sites
  - bilateral midaxillary sites

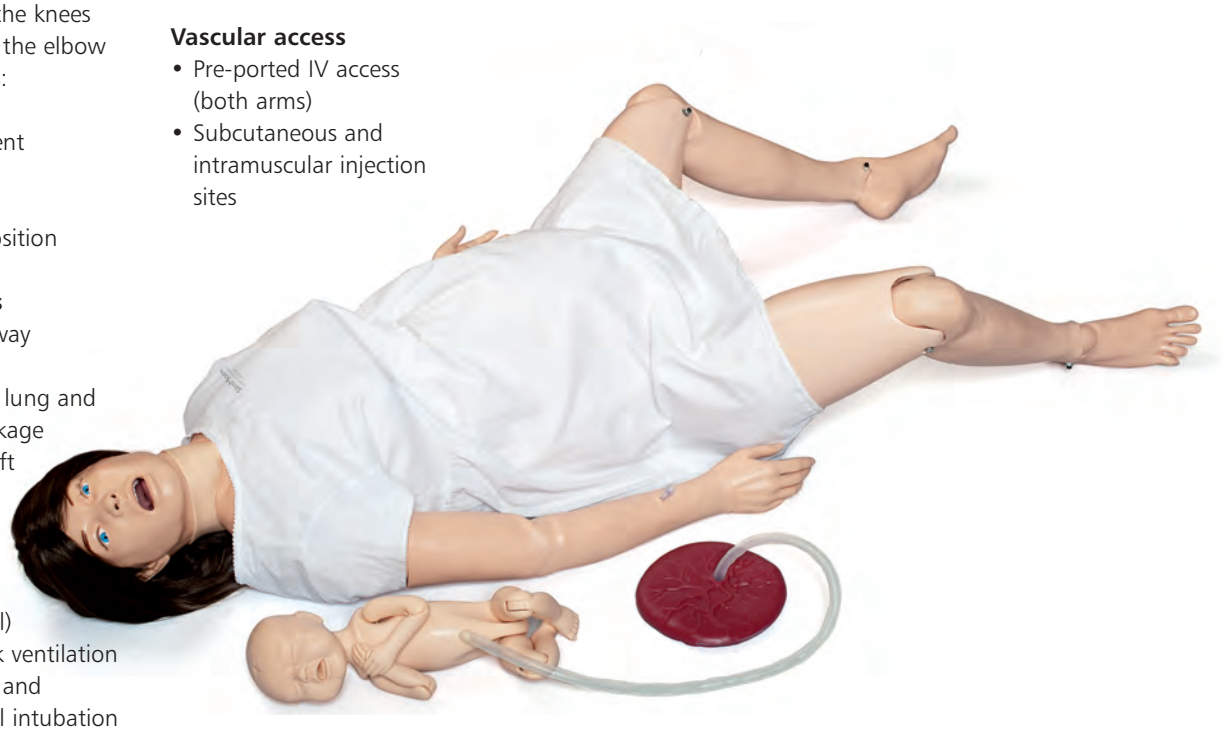
Vascular access
- Pre-ported IV access (both arms)
- Subcutaneous and intramuscular injection sites

Circulation features
- Blood pressure measured manually by auscultation of Korotkof sounds
- Bilateral carotid and brachial pulse, radial (right side only) pulses synchronized with EKG
- Pulse strength variable with blood pressure
- Pulse palpation is detected and logged

Chest compressions
- CPR compressions generate palpable pulses, blood pressure wave form, and EKG artifacts
- Detection and logging of a series of compressions

Cardiac features
- Extensive EKG library
- Heart sounds synchronized with EKG
- EKG rhythm monitoring
- 12 lead EKG display
- Defibrillation and cardioversion
- Pacing

Other features
- Bowel sounds and fetal heart rate (not at the same time)
- Interchangeable pupils (normal, blown and constricted)
- Patient Voice:
  - pre-recorded sounds
  - custom sounds
  - instructor can simulate patient's voice wirelessly



Birthing Baby
- Realistically modelled head with all head landmarks present (fontanelles and sutures)
- Head can be used for forceps deliveries (including rotational) and suction delivery (kiwi and ventouse)
- Head can be easily manipulated by the trainer and flexes naturally as it is pushed through the birth canal
- Open mouth for suction (if required)
- The Birthing Baby's body is designed to allow it to be easily pushed through the birth canal
- Bony prominences of the hips to support Lovset's maneuvers
- Realistically positioned torso landmarks (scapulae and clavicles)
- Arms and legs fully moveable to allow for maneuvers required during deliveries (particularly breech and shoulder dystocia)
- Umbilicus and placenta (normal and retained)
- Electronic Fetal Monitoring and Cardiotocography can be controlled and displayed by the instructor

Newborn Anomaly Prosthetics

Part No: **AWM-NAP**

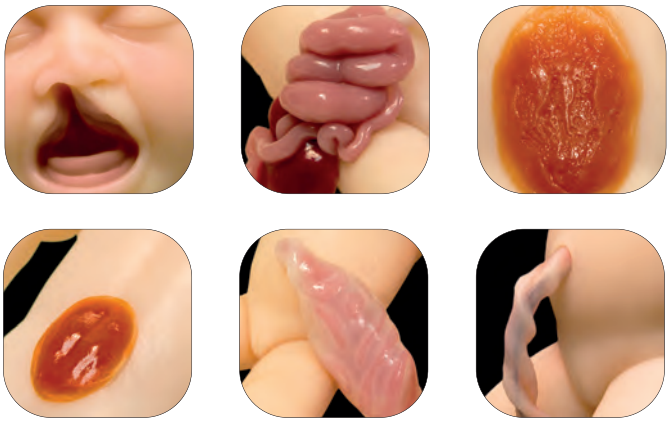
Newborn infant emergencies and congenital anomalies can present life-threatening challenges for all levels of Health Care Providers. The Newborn Anomaly Prosthetics have been carefully crafted based on actual case studies, as well as on Physician and Nursing design criteria, in order to provide important visual and tactile cues that will help prepare Learners for management of these complex patient care events.

Skills
- Management of patient care events

Features
- Realistic in look and feel
- Soft and flexible
- Easily attach to most brands of newborn infant mannequins

Package supplied
- 1 Cleft palate head skin
- 1 Gastroschisis
- 2 Myelomeningoceles (large & small)
- 1 Omphalocele
- 2 Umbilical cords (long & short)
- 1 Carry case

Packed weight (lbs) & dimensions (in)	5.4	lb	24	l	12.5	w	8.0	h



Fetal DemiseSIM

Part No: **AWM-FDSIM**

The Fetal DemiseSIM baby has been developed in collaboration with Neonatology and Nursing Experts to provide important visual and tactile cues that will help prepare Learners for management of this emotionally complex patient / family crisis.

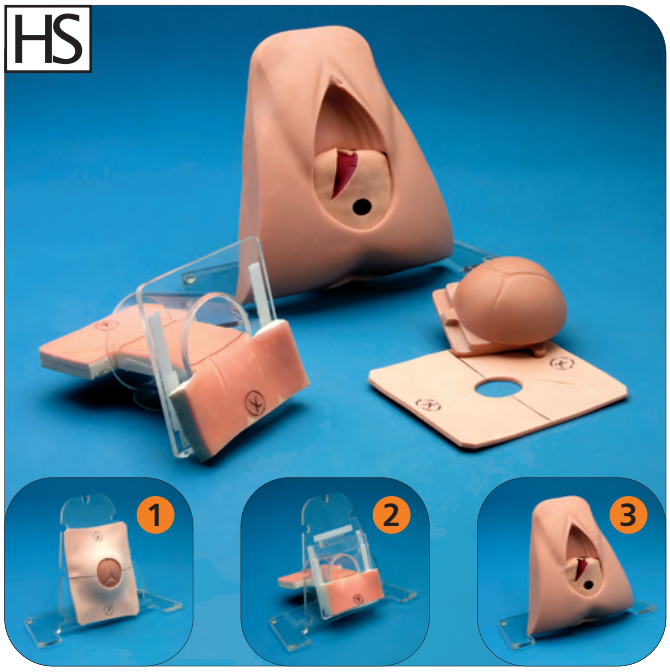
Skills
- Management of patient care events

Features
- Simulates a 28-30 week fetus, weighing 2.65lb, 15.5in long
- Realistic in look, feel and weight
- Fits in the pelvis on most birthing mannequins and partial pelvis birthing trainers
- Includes one inter-professional scenario focusing on the inital care of the family dealing with an intrauterine fetal death

Package supplied
- 1 Fetus
- 1 Manual
- 1 Carry case

Packed weight (lbs) & dimensions (in)	6.8	lb	24	l	12.5	w	8.0	h

Fetal DemiseSIM in use



Keele & Staffs Perineal Repair Trainer

Part No: **60480**

A three stage training system for teaching episiotomy, suturing techniques, and repair of episiotomy & second degree tears. The model was developed in conjunction with Professor Christine Kettle - Professor of Women's Health, University Hospital of North Staffordshire & Staffordshire University (UK) and Mr Khaled Ismail - Senior Lecturer & Consultant Obstetrician & Gynecologist, Keele Medical School & University Hospital of North Staffordshire (UK).

Stage 1: Episiotomy

A simplified model for teaching safe methods of performing episiotomies.

Skills

- Identification of fontanelles
- Handling of a stretched perineum
- Reducing the risk of damaging the baby or mother
- Infiltration of perineum prior to episiotomy
- Use of instruments
- Performance of medio-lateral (or midline) episiotomy

Features

- Realistic representation of tissue to represent a stretched perineum
- Baby Head provides a realistic look and feel providing landmarks and appropriate tactile response when inserting fingers to guard the baby's head
- Cost effective with two episiotomies per pad
- Attaches to the Perineal Repair Base

Stage 2: Perineal Repair Techniques

The Episiotomy & Perineal Repair Pad prompts trainees to learn to suture on two planes, one of which has the spatial challenges which exist when suturing within the vagina.

Skills

- Suturing in two planes (inside vagina and on the perineum)
- practice suture techniques:
  - continuous
  - subcuticular
  - knot tying

Features

- The Episiotomy & Perineal Repair Pad allows suturing techniques to be practiced on two planes
- Representation of the anus printed on pad for orientation
- Representation of the hymenal remnant printed on pad to assist in assessment of suturing techniques
- Soft skin with a similar drag and strength to human skin
- Comprises epidermis, dermal and subdermal layer (not muscle)
- Epidermis and dermis have a realistic retention of suture

Stage 3: Perineal Repair Procedures

For the practice of episiotomy and second degree tear repair.

Skills

- Tissue layer recognition and handling
- Vaginal mucosal suturing
- Deep muscle suturing
- Subcuticular suturing
- Identification and management of perineal tears
- Enables digital rectal examination before and after repair

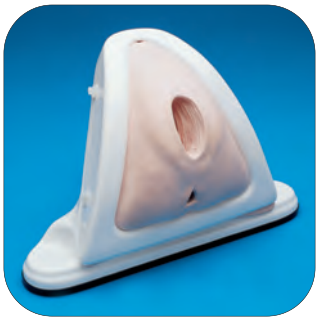
Features

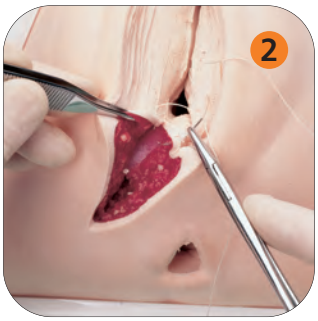
- The Episiotomy & Perineal Repair Procedure Block represents the following realistic anatomy:
  - perineal skin
  - superficial muscle structure and relevant layer for suturing
- Cost effective: all layers can be sutured repeatedly
- Each Procedure Block presents 3 repair sites (left lateral is pre-incised, with both midline and right lateral uncut)
- Skin surface is washable using soap and water
- Clamps provided to secure Trainer to edge of bench top

Package supplied

- 1 **Episiotomy Incision Pad (Pack of 6)** Part No: **60451**
- 1 **Episiotomy & Perineal Repair Pad (Pack of 2)** Part No: **60452**
- 1 **Episiotomy & Perineal Repair Block** Part No: **60453**
- 1 **Perineal Repair Perineum** Part No: **60454**
- 1 **Perineal Repair Techniques Jig** Part No: **60455**
- 1 **Perineal Repair Base & Clip** Part No: **60456**
- 1 **Keele & Staffs Baby Head** Part No: **60457**
- 2 Bench top clamps
- 1 Carry case

Packed weight (lbs) & dimensions (in)	9.3 lb	7.1 l	12.2 w	3.1 h





Perineal Repair Trainer

Part No: **60220**

For the practice and repair of episiotomy, and repair of perineal lacerations.

Skills
- Performing an episiotomy 1
- Tissue layer identification and handling
- Deep musculature suturing 2
- Subcuticular suturing
- Superficial suturing 3

Features
- Full procedure can be carried out
- Perineum, vagina and bowel are represented by a replaceable soft tissue pad
- Soft tissue pad contains superficial muscle structure and relevant layers for suturing
- Cost effective: all layers can be sutured repeatedly
- Episiotomy or laceration can be sited to the left, right or directly towards the anus
- Perineum can be distended to replicate delivery
- Skin surface is washable using soap and water
- Clamps stabilize the Trainer during use

Package supplied
- 1 **Perineal Pad** Part No: **60221**
- 1 Base
- 2 Clamps

Packed weight (lbs) & dimensions (in)	4.4 lb	5.9 l	11.4 w	11.0 h

FGM Deinfibulation Trainer

Part No: **60470**

This new model has been designed to help recognize female genital mutilation (FGM) and perform the surgical reversal procedure of deinfibulation. This model represents Type III FGM.

The idea of adapting the Keele & Staffs Episiotomy Repair Trainer for deinfibulation training was conceived by Mr Abdalla E A Yagoub (Special Registrar in Obstetrics & Gynecology, West Midlands Deanery) and developed by him in collaboration with Mr Khaled M K Ismail and Miss Fidelma O'Mahony from the University Hospital of North Staffordshire.

Skills
- Recognize correct anatomy and classification type of FGM
- Identification of important anatomical landmarks
- Guarding vital anatomy whilst performing a surgical incision
- Suturing skills including knot tying

Features
- Skin layers have realistic retention of sutures
- Finger can be inserted to guard the vagina and clitoris while incisions are made
- **FGM Deinfibulation Upgrade Kit** Part No: **60473** fits onto the frame supplied with both the Keele & Staffs Perineal Repair Trainer (page 83) and the Sultan Anal Sphincter Trainer (page 85)

Package supplied
- 1 **FGM Deinfibulation Perineum** Part No: **60471**
- 1 **FGM Deinfibulation Insert Block** Part No: **60474**
- 1 **FGM Deinfibulation Perineal Skin (Pack of 3)** Part No: **60472**
- 1 Frame
- 2 Bench top clamps
- 1 Carry case

Packed weight (lbs) & dimensions (in)	4.85 lb	22.0 l	14.2 w	5.1 h

Sultan Anal Sphincter Trainer

Part No: **60227**

For practicing the techniques associated with the repair of the internal and external sphincter (3rd & 4th degree tears). Developed in collaboration with Mr Abdul Sultan, Mayday Hospital, Croydon (UK).

Skills

- Recognition of internal anatomy
- Tissue handling
- End-to-end repair of the external sphincter
- Overlap repair of the external sphincter
- Repair of the internal sphincter and mucosa

Features

- The Anal Sphincter Block presents the following realistic anatomy:
  - perineal skin
  - external sphincter
  - internal sphincter
  - mucosa
  - muscle tissue
- All essential layers of tissue can accept sutures
- Each replaceable Anal Sphincter Block presents 2 repair sites (1 site is preincised the other is uncut)
- Quick and easy to prepare and replace during training courses
- Durable, long-lasting perineum and frame
- Clamps provided to secure Trainer to edge of bench top
- Supplied in durable plastic carry case
- Compact and portable

Package supplied

- 1 **Anal Sphincter Perineum** Part No: **60229**
- 1 **Anal Sphincter Block** Part No: **60228**
- 1 Anal Sphincter Block Clip
- 1 Base
- 2 Bench top clamps
- 1 Carry case

Packed weight (lbs) & dimensions (in)	5.5 lb	15.4 l	10.6 w	4.7 h

Suturing anal sphincter

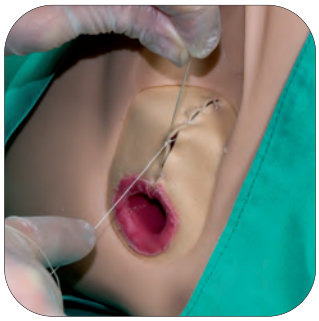
Suturing vaginal mucosa

Practice deinfibulation on your Sultan Anal Sphincter Trainer by purchasing the **FGM Deinfibulation Upgrade Kit** Part No: **60473**. See page 84.

Identification and exposure of anal sphincter

Suturing anal sphincter

Suturing vaginal mucosa



Completion of repair

Umbilical Cord

Part No: **50143 (Pack of 5)**

Simulated umbilical cord for identifying the vein and arteries and practicing cannulation techniques relevant to an intermediate level of training for resuscitation of the newborn.

Skills
- Insertion of cannula into umbilical vein for venous access
- Withdrawal of blood for sampling
- Tying off the umbilical vessels

Features
- Non-biological material; no hygiene issues
- Realistic representation of the umbilical vessels – blood filled large vein, two smaller arteries, twisted within a soft tubal structure and simulated Wharton's Jelly
- Suitable for introduction of catheters up to FG5
- Size to suit Baby Umbi
- Dimensions:
  - 12mm outside diameter
  - 220mm length

Package supplied
- 5 Umbilical Cords

Packed weight (lb) & dimensions (in)								
0.2	lb	9.25	l	1.6	w	1.6	h

Translucent Uterus

Part No: **60311**

A translucent uterus with normal anatomy for demonstrating placement of IUDs and for use with small diameter hysteroscopes.

Skills
- Placement and removal of IUDs
- Insertion, manipulation and removal of instruments

Features
- Translucent for visualizing internal anatomy and device placement
- Long-lasting
- Non-dilated

Package supplied
- 1 Translucent Uterus

Packed weight (lb) & dimensions (in)								
0.4	lb	4.13	l	4.53	w	2.36	h

Breastmilk Hand Expression Trainer

Part No: **40103**

Developed for teaching the techniques required for the hand expression of breast milk. Designed in conjunction with the UNICEF UK Baby Friendly Initiative and it may be particularly useful for staff training in facilities working towards Baby Friendly accreditation.

Its purpose is as a teaching and learning tool for midwives, health visitors and other health care practitioners.

Skills
- The technique of hand expression mimics the natural stimulation of breast milk during feeding. There are two stages to this process:
  - the oxytocin reflex (milk ejection or let down reflex)
  - compression of the lactiferous sinuses

Features
- The soft foam breast is realistic in shape, texture and proportion, and is warm to the touch
- The model can be presented in two ways: freestanding or held against the body
- The model incorporates four 'milk' reservoirs. These mimic the 15 to 20 lactiferous sinuses of the normal

Package supplied
- 1 **Simulated Breast Milk (500ml)** Part No: **40104**
- 1 Breastmilk Hand Expression Trainer
- 1 Cleaning pump

Packed weight (lb) & dimensions (in)								
7.6	lb	9.8	l	16.9	w	20.5	h

PAT Pediatric Auscultation Trainer

Light Skin Part No: **CD718-8820**

Dark Skin Part No: **CD718-8920**

This pediatric auscultation trainer with listening points at the correct anatomical locations also has heart sounds at different rates for comparison.

Skills

- Use and placement of a stethoscope
- Identification of sounds and their variations
- Relationship between sounds and auscultation sites
- Ability to describe sounds clearly to others

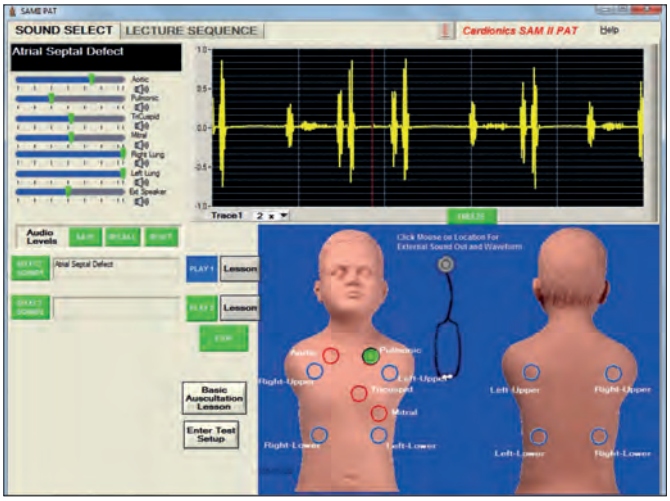
Features

- Total of 99 sounds supplied:
  - 23 heart (at 75bm and 90 bm) including Eisnemenger's Syndrome, Ebstein's Anomaly, venous hum
  - 4 heart lung and palpation
  - 15 pediatric breath
  - 3 pediatric bowel
- Customized volume adjustments
- Students can use their own stethoscopes
- On-line student learning and assessment modules
- Classroom or auditorium ready
- Variable heart and respiration rate
- Phonocardiograms
- Online student learning and assessment modules
- Online Site License FREE with purchase of PAT
- One year warranty
- Portable

Package supplied

- 1 PAT Trainer
- 1 Dell laptop with PAT software installed
- 1 PAT powercord
- 1 USB cables
- 1 PAT T-shirt

Packed weight (lbs) & dimensions (in)	30	lb	29	l	18	w	18	h



Software supplied enables full control over sounds

Accessories available:

HeartMan Infrared Headphones Part No: CD718-7040

The Headphones allow simultaneous listening for clinical and educational situations. Their comfortable binaural ear pieces and the internal speaker ensure the sounds are very similar to those heard with a stethoscope. **Features include:** battery operated (up to 150 hours of listening), Automatic Shutoff to maintain battery life, volume control to allow listeners to adjust to own hearing level, infrared operation ensures no radio interference, FDA approved. Quantity pricing for this item is available upon request.

SimulScope Part No: CD718-7003

Allows you to share live physiological or mannequin-generated heart and lung sounds with up to 20 other people wearing HeartMan Infrared Headphones.

Classroom Infrared Emitter Part No: CD718-0015

Designed to provide simultaneous listening for a classroom or simulation lab of up to 30 students wearing HeartMan Infrared Headphones. Many institutions find value in utilizing the Classroom Infrared Emitter with high priced mannequins and simulators, allowing each student greater interaction with the sounds of the mannequin or simulator. **Features include:** Excellent sound quality, compact size, large number of applications, easy to set up & use.

Auditorium Infrared Sound System (ISS)

Single Array Part No: **CD718-4006-1**

Allows up to 175 students to listen to broadcasted sounds

Dual Array Part No: **CD718-4006-2**

Allows up to 500 students to listen to broadcasted sounds

Transmits heart, lung, bowel and Korotkoff sounds to a small or large audience with each person wearing a pair of wireless HeartMan Infrared Headphone (HIH). A Voice-Over System is included to transmit the instructor's voice to the Wireless HeartMan Infrared Headphones. **Features include:** Excellent sound quality, can be used with up to 500 listeners

AirSim Baby

Part No: **TCJR10001**

AirSim Baby is the latest addition to the TruCorp family of advanced airway and resuscitation mannequins. This simulator incorporates realistic anatomy and clinical functionality enabling the practice of basic and advanced pediatric airway management.

Skills

- Use of laryngoscope
- Insertion of supraglottic devices
- Insertion of naso- and oro-tracheal tubes
- Bag and mask ventilation
- Use of videolaryngoscopes
- Positive pressure ventilation

Features

- Realistic airway
- Accepts 3.5-4.0 tracheal tubes and size 1 supraglottic airway
- Realistic external and internal anatomical features allow for easy and successful demonstration of all pediatric videolaryngoscopes
- Lungs demonstrate correct tube placement
- Presented on a lightweight, sturdy base
- Neatly packaged with its own lightweight case for easy transportation

Package supplied

- 1 AirSim Baby
- 1 Carry case

Packed weight (lb) & dimensions (in)								
4.4	lb	12.6	l	7.5	w	7.5	h

AirSim Child

Part No: **TCAC10006**

This anatomically correct six-year-old child mannequin has both realistic size and anatomical features perfect for practicing pediatric airway management skills, including bag/mask ventilation, supraglottic airway insertion, naso and orotracheal intubation.

Developed in conjunction with the Children's Hospital Los Angeles, it is based on true CT data and this latest model offers quality and affordability for pediatric airway management skills.

Skills

- Insertion of laryngeal masks
- Nasal endotracheal intubation
- Oral endotracheal intubation

Features

- Realistic and true internal anatomical features allow for an efficient and successful demonstration of all pediatric video laryngoscopes
- Allows for training in all aspects of infant airway management
- Supplied with 'lungs' to demonstrate correct tube placement

Package supplied

- 1 AirSim Child
- 2 Lungs
- 1 Lightweight carry case

Packed weight (lb) & dimensions (in)								
5.7	lb	15.75	l	9.65	w	8.47	h

AirSim Pierre Robin

Part No: **TCPR10000**

The AirSim Pierre Robin is the next evolutionary addition to the TruCorp Pediatric range. It was developed in collaboration with clinicians from Children's Hospital Los Angeles to highlight difficult airway management techniques on infants with Pierre Robin Sequence.

Skills

- Bag mask ventilation
- Nasotracheal intubation
- Orotracheal intubation
- Insertion of laryngeal masks
- High fidelity training of difficult airway management

Features

- Anatomically correct airway constructed from real CT data
- Mandibular hypoplasia
- Glossoptosis
- Cleft palate
- Bifid uvula
- Presented on a lightweight and sturdy frame
- Supplied with 'lungs' to demonstrate correct tube placement

Package supplied

- 1 AirSim Pierre Robin
- 2 Lungs
- 1 Lightweight carry case

Packed weight (lb) & dimensions (in)								
4.4	lb	12.6	l	7.5	w	7.5	h

tru corp
true anatomy
true training
true to life

Newborn Anne

Part No: **LD220-25050**

Designed for skills training in neonatal resuscitation. With anatomical accuracy and a product feature set designed to focus on the critical resuscitation skills required in the first 10 minutes of a newborn's life. Meets key components of the NRP course curriculum.

Skills
- Insertion of naso- & oro-tracheal tubes and supraglottic devices (LMA)
- Suctioning of the nares, nasopharynx, oropharynx, esophagus and the lungs via an ET tube
- Positive Pressure Ventilation via BVM, T-Piece resuscitator, or anesthesia bag
- Pneumothorax - Needle thoracentesis left mid-axillary
- Orogastric tube insertion
- Manual chest compression at appropriate depth (1/3 AP) and force
- Manual umbilical pulse and umbilical vein/artery access via umbilicus

Features
- Newborn Anne accurately represents a full term, 50th percentile newborn female, 21 in long and 7 lbs weight
- For more information visit www.limbsandthings.com

Package Supplied
- Full-body neonatal mannequin
- Meconium module set
- Umbilical cord • Clamp
- Airway lubricant • Simulated blood
- Liquid soap • Baby powder
- IO fill/empty syringe • Baby pants
- Carry case • CD user guide

Packed weight (lb) & dimensions (in)			
TBC lb	TBC l	TBC w	TBC h

NEW

Resusci® Baby

Basic Part No: **LD14001001**

With SkillGuide
Part No: **LD14001101**

The Resusci Baby mannequin offers realism and quality to infant CPR education. Its full-body construction, and use of the optional SkillGuide performance indicator enable students to quickly sharpen their skills in performing infant CPR to high standards.

Skills
- Individual CPR Procedures
- CPR & Team Management

Features
- Baby is 20 inches long & weighs 5lbs
- Realistic chest rise verifies correct ventilations
- Realistic resistance for chest compression allows the students to experience the amount of pressure needed to perform proper chest compressions in a real-life situation
- Brachial pulse simulation to realistically check for pulse
- Optional SkillGuide CPR performance indicator provides immediate objective feedback on ventilation duration and volume, compression depth and finger position

Package Supplied
- 3 Resusci Baby Faces
- 6 Resusci Baby Airways
- 1 bottle of High Level Mannequin Disinfectant
- Pulse Bulb and tubing
- Directions for Use
- Plastic Carrying Case

NEW

Resusci® Junior

Basic Part No: **LD18001001**

With SkillGuide
Part No: **LD18001101**

With Water Rescue
Part No: **LD18001201**

The Resusci Junior mannequin offers realistic, high-quality child CPR education. It has full-body construction and use of an optional SkillGuide performance indicator. Students can quickly sharpen their skills in performing child CPR to high standards.

Skills
- Individual CPR Procedures
- CPR & Team Management

Features
- Junior is 44 inches long & weighs 13lb
- Realistic chest rise verifies correct ventilations
- Realistic resistance for chest compression allows the students to experience the amount of pressure needed to perform proper chest compressions in a real-life situation
- Bilateral carotid pulse simulation to realistically check for pulse
- Optional SkillGuide CPR performance indicator provides immediate objective feedback on ventilation duration and volume, compression depth and hand position
- Optional water rescue kit provides students with the chance to experience lifelike water rescue techniques required by the age group depicted by the manikin

Package Supplied
- Varies dependent upon option purchased

Nita Newborn

Part No: **VT1800**

An anatomically correct representation of a 3.9 lbs, 15.6 in long female baby for teaching and practicing the vascular accessing of newborns and infants.

Skills

- Placement, suctioning, securing, dressing, cleansing and maintenance of nasal cannulas, endotracheal tubes, nasotracheal tubes and feeding tubes
- Central catheter insertion, securing, dressing & maintenance
- IV and PICC line insertion, securing, dressing & maintenance
- Umbilical catheterization
- Venipuncture including heparinization and fluid infusion

Features

- A 'pop' is felt as the needle enters the vein with a realistic flashback of blood confirming proper needle placement
- Veins specifically designed with a small internal diameter to make accessing more challenging
- Venipuncture sites include:
  - median, basilic and axillary sites in both arms
  - saphenous and popliteal veins in right leg
  - external jugular and temporal veins
- Life-like umbilicus allows for the repeated use of a 5FR umbilical catheter to access the umbilical vein, with proper placement verified by a 'blood' return

Package Supplied

- Infant mannequin
- Simulated blood
- Carry case
- Fluid bag and tubing
- Diaper

Packed weight (lbs) & dimensions (in)	6.1 lb	17.2 l	14.0 w	6.1 h

Intraosseous Trainer

Part No: **LD080015**

Designed for training infant intraosseous infusion techniques.

Skills

- Intraosseous needle insertion
- Aspiration of simulated bone marrow

Features

- Replaceable pads contain a tibia prefilled with simulated bone marrow
- Up to 15 punctures can be performed per pad (depending on how close punctures are to each other)

Package supplied

- Infant leg mounted on base
- **Intraosseous Pads (Set of 5)** Part No: **LD082305**

Packed weight (lbs) & dimensions (in)	1.7 lb	11.4 l	5.5 w	3.94 h

Pediatric IV Hand Simulators

Part No: **KKM95**

Provide the ideal platform for healthcare professionals needing to practice venipuncture and IV cannulation procedures on infants (2 hands are supplied: a one-year-old and a three-year-old). The incorporation of thin, soft, difficult to find veins presents the trainee with the realistic challenges associated with pediatric venous access.

Skills
- Venipuncture
- IV cannulation

Features
- Realistic tissue resistance of the hand and veins
- Realistic venous flashback
- No puncture traces visible after procedure is performed
- Special angle-adjustable stands facilitate practice in the proper position (inset right)
- Quiet circulation pump reproduces blood flow
- Easy to set up, one-touch leak-free connections
- Easy clean up

Package supplied
- 1 One-year-old IV hand with stand
- 1 Three-year-old IV hand with stand
- 1 Circulation pump
- 1 Jar of blood powder
- 1 Plastic beaker, spoon and plastic jar
- 1 Carry case

Packed weight (lbs) & dimensions (in)	24.3 lb	27.6 l	19.7 w	11.8 h

KYOTO KAGAKU

Product details correct at time of going to press. Subject to change.

Pediatric Lumbar Puncture Simulator

Part No: **KKM43D**

This model which represents a 7-10 month old infant is designed to practice the lumbar puncture procedure.

Skills
- Skin preparation
- Patient positioning
- Palpation of landmarks
- Sterilization & local anesthesia
- Needle positioning and insertion
- Cerebrospinal fluid (CSF) collection and pressure measurement

Features
- Body of the mannequin is soft and flexible
- Realistic tissue resistance
- Puncture sites not visible on skin
- Puncture block is quick and easy to replace
- Successful puncture is confirmed by the simulated CSF (water) flowing out
- Iliac crests and spinous process are present and palpable
- CSF pressure can be measured with a manometer

Package supplied
- 1 **Pediatric Lumbar Puncture Block 12mm (For KKM43D) 2 Piece with Skin**
  Part No: **KK11348-410**
- 1 **Pediatric Lumbar Puncture Block 17mm (For KKM43D) 2 Piece with Skin**
  Part No: **KK11348-420**
- 1 Infant mannequin
- 1 Stand
- 1 Irrigation bag
- 1 Syringe

Product details correct at time of going to press. Subject to change.

Packed weight (lb) & dimensions (in)				
17.9 lb	24.4 l	19.3 w	8.7 h	

KYOTO KAGAKU

NEW

Baby Hippy

Part No: **LD375-35001**

A reproduction of the lower torso and limbs of a female newborn designed to train professionals in diagnosing both congenital hip dislocation and hip dislocatability.

Skills
- Diagnosing congenital hip dislocation and hip dislocatability

Features
- Dislocated left hip for practice of the Ortolani Jerk-Sign
- Lax right hip for performing the Barlow Maneuver

Package supplied
- 1 Baby Hippy

Packed weight (lbs) & dimensions (in)	2.8 lb	12 l	11 w	10 h

Laerdal helping save lives

Newborn Bathing & Nursery Care Model

Part No: **KKM59 Male**
Part No: **KKM63 Female**

A life-size mannequin of a 0-4 week old newborn infant.

Visit the product page on the website for more information

Packed weight (lbs) & dimensions (in)	6.6 lb	11.8 l	20.5 w	5.9 h

Baby Patient Care Model

Part No: **KKM73**

Life-size model of 7-10 month old female baby.

Visit the product page on the website for more information

Packed weight (lbs) & dimensions (in)	15.4 lb	28.0 l	14.6 w	9.0 h

Child Patient Care Model

Part No: **KKM86**

Life-size model of 5-6 year old female child.

Visit the product page on the website for more information

Packed weight (lbs) & dimensions (in)	30.9 lb	42.5 l	17.3 w	11.4 h

Product details correct at time of going to press. Subject to change.

KYOTO KAGAKU

Nickie® Medical Training Doll

Part No: **HOL-WF (White Female)**
Part No: **HOL-WM (White Male)**
Part No: **HOL-HF (Hispanic Female)**
Part No: **HOL-HM (Hispanic Male)**
Part No: **HOL-BF (Black Female)**
Part No: **HOL-BM (Black Male)**

Nickie® is used to practice medical device training for special medical needs children. It is designed for tracheostomy management, gastrostomy training, urethral catheterization, colostomy stoma care and PICC line familiarization. Nurses and paramedics can use it to train school and hospital staff, as well as parents and home care providers.

Skills
- Tracheostomy management
- Tracheal tube suctioning
- Gastrostomy training
- Care of a gastrostomy button
- Urethral catheter insertion
- Stoma care
- Oral suctioning
- Peripherally inserted central catheter (PICC) line care

Features
- An ileostomy stoma is positioned in the lower right abdomen
- A gastrostomy device is implanted and a feeding tube is included
- A tracheostomy tube is inserted and secured with a standard tracheostomy tube holder
- A PICC is positioned in the forearm and secured with a 'Stat-Lock'
- Open oral and nasal passages
- Injection port on the left thigh
- Fluid drain in the left heel
- Anus is sized for a Diastat syringe

Package supplied
- 1 Nickie® training doll
- 1 Shiley tracheostomy tube
- 1 Bard Wizard gastrostomy button
- 1 PICC line
- 1 Ambu Bag
- 1 Tracheostomy suction catheter
- 1 Gastrostomy feeding tube
- 1 Syringe for gastrostomy button inflation/deflation
- 1 Intermittent urethral catheter
- 1 Booklet:
  - sample school Nursing Care Plans
  - device descriptions
  - special needs children from the NICU (Story of Nickie®)

Packed weight (lbs) & dimensions (in)	12.1 lb	21.7 l	11.4 w	18.9 h

Optional Carry Case Part No: **HOL-CC**

Top right: White Female

Top left: Hispanic Female

Bottom left: Black Female

Tracheostomy tube with holder

Stoma with gastrostomy button

PICC line

Injection port on left thigh

Ileostomy stoma

Urethral Catheterization is possible. Anus is correctly sized for a Diastat syringe

‘Pat’ Pressure Ulcer Staging Model™

Part No: **VT0980**

A unique, compact, comprehensive and realistic model displaying pressure ulcers.

Skills
- Competency testing
- Skills assessment
- Routine cleansing
- Dressing techniques

Features
- Suspected DTI (Deep Tissue Injury) with ‘mushy / boggy’ feel when palpated on darkly pigmented individual
- Blood blister on a darkly pigmented individual
- Stage I pressure ulcer on darkly pigmented skin
- Suspected DTI (Deep Tissue Injury) with ‘mushy / boggy’ feel when palpated
- Blood blister
- Unstageable eschar/slough wound
- Stage I pressure ulcer
- Stage II blister intact
- Stage II pressure ulcer
- Stage III pressure ulcer with undermining, tunneling, granulation tissue, subcutaneous fat, eschar and slough
- Stage IV pressure ulcer of malleous, with exposed tendon and bone (with osteomyelitis)

Packed weight (lbs) & dimensions (in)	5.0 lb	14 l	12 w	5 h

Optional Carry Case Part No: **VT0981**

VATA Anatomical Healthcare Models

‘Stan’ Stage IV Pressure Ulcer Model™

Part No: **VT0970**

This product features a large sacral Stage IV pressure ulcer (NPUAP 2007 Pressure Ulcer Staging Guidelines), with exposed bone of the coccyx, undermining, tunneling, slough, eschar and a Stage III pressure ulcer on the left buttocks.

Skills
- Competency testing
- Skills assessment
- Routine cleansing
- Dressing techniques:
  - Single dressing
  - ‘bridging’ dressing
- Teaching and training vacuum assisted closure and negative pressure wound therapy

Features
- Pressure ulcers
- Diabetic wounds
- Abdominal wounds
- Trauma wounds
- Flaps and grafts

Packed weight (lbs) & dimensions (in)	2.0 lb	14.0 l	12.0 w	5.0 h

Optional Carry Case Part No: **VT0971**

VATA Anatomical Healthcare Models

Seymour II Wound Care Model™

Part No: **VT0910**

Molded from a 74-year-old patient, this model allows training in wound cleansing, classification, staging and assessment.

Skills
- Competency testing
- Skills assessment
- Dressing techniques
- Negative wound therapy

Features
- Measurement of wound length, depth, undermining and tunneling
- Positioning of wounds permits multiple dressings
- Dressings can be easily applied and removed
- Pressure ulcers as defined by NPUAP 2007 - National Pressure Ulcer Advisory Panel
- Wounds and complications include:
  - Stage I left ischial pressure ulcer
  - Stage II left ischial pressure ulcer
  - Stage III right trochantic pressure ulcer, infected
  - Stage IV sacral pressure ulcer with slough, undermining, tunneling, sinus tract and exposed bone
  - Eschar over the right ichium
  - Anal fistula
  - Herpes, left gluteal fold
  - Sutured incision on the right buttocks
  - Candidiasis in the anal fold

Packed weight (lbs) & dimensions (in)	6.0 lb	18.0 l	16.0 w	10.0 h

Optional Carry Case Part No: **VT0901**

VATA Anatomical Healthcare Models

'Wilma' Wound Foot™

Part No: **VT0950**

Molded from an 80-year old patient for a true-to-life experience when assessing the various wounds

Skills
- Training
- Skills assessment
- Competency testing
- Dressing techniques

Features
- Twenty different conditions are presented:
  - Stage I pressure ulcer on the medial malleolus
  - Stage II pressure ulcer on the lateral foot
  - Stage III pressure ulcer on the heel with infection
  - Stage IV pressure ulcer on the lateral malleolus with exposed tendon and bone (with osteomyelitis)
  - Stage IV pressure ulcer on the medial foot with exposed slough and exposed tendon and slough
  - Suspected DTI (Deep Tissue Injury) on top of the foot with 'mushy/boggy' feel when palpated
  - Unstageable eschar on lateral foot
  - Full thickness ulcer, plantar 1st digit, probably diabetic neuropathic etiology
  - Callus under the 4th metatarsal phalangeal joint
  - Amputated 2nd toe
  - Dry gangrene of the 5th toe, due to ischemia
  - Interdigital maceration between the 4th & 5th toes
  - Partial thickness wounds between 3rd & 4th toe at 1st joint
  - Corn on top of 3rd toe
- Visit ww.limbsandthings.com for more information

Packed weight (lbs) & dimensions (in)	4.0 lb	13.0 l	10.0 w	4.0 h

Optional Carry Case Part No: **VT0951**

VATA Anatomical Healthcare Models

A
ABDFAN Ultrasound Examination Training Model 17
Abdominal Intraoperative & Laparoscopic Ultrasound Phantom IOUSFAN 63
Abdominal Skin 74
ACF Pad - Venipuncture 30
Adult Bathing & Patient Care Models 42
Advanced Catheterization Trainer 38
Advanced Chest Drain Pads (Pack of 2) 21
Advanced Female Catheterization Trainer 39
Advanced Male Catheterization Trainer 39
Advanced Surgical Uterus 73
Advanced Venipuncture Arm 29
AirSim Advance 23
AirSim Advance Bronchi 23
AirSim Advance Combi 24
AirSim Advance Crico 24
AirSim Advance Traci 24
AirSim Baby 88
AirSim Child 88
AirSim Pierre Robin 88
Airway Suction Trainer 'Q' 25
Anal Sphincter Block 85
Anal Sphincter Perineum 85
Antifungal Agent (250ml) 38, 39
Appendix 70
Arterial Puncture Wrist 26
Aseptic Catheterization Sleeves 38, 39
Auscultation 7, 8

B
Baby Hippy 92
Baby Patient Care Model 92
Bag & Stand Advanced Venipuncture Arm 29
Basic Catheterization Trainers - Value Set 39
Basic surgical techniques 68
Bed bathing 40
Bi-manual examination 12
Birthing Abdomen & Perineum - Episiotomy 78
Birthing Baby - Force Monitoring 78
Birthing Baby - Standard 78
Birthing Mother 78
Birthing Perineal Muscles 78
Birthing Placenta 78
Blood Pressure Measurement Trainer 10
Body positioning 40
Breast Aspirant (50ml) 14
Breast examination 14
Breast Ultrasound Examination Phantom 15
Breastmilk Hand Expression Trainer 86
Bronchi 23, 24

C
Cardiology Patient Simulator K 9
Catheterization Foreskin (Pack of 3) 38, 39
Cerebrospinal fluid 36, 91
Cervical smear procedure 12
CFPT Abdominal Insert 12
CFPT Module 1: Normal - Nulliparous Cervix 13
CFPT Module 2: Large Fibroid Nulliparous Ectropion Cervix 13
CFPT Module 3: Small Fibroid - Nulliparous Polyp Cervix 13
CFPT Module 4: Ovarian Cyst - Multiparous Cervix 13
CFPT Module 5: Retroverted Multiparous Cervix 13
CFPT Module 6: 10-12 Weeks Pregnant 13
CFPT Module 7: 14-16 Weeks Pregnant 13
Chest Drain & Needle Decompression Trainer 21
Chest Drain Ribs (Pack of 12) 21
Chester Chest™ with New Advanced Arm 34
Child Patient Care Model 92
Clinical Female Pelvic Trainer (CFPT) Mk 3 12, 13
Clinical Male Pelvic Trainer 11
Colonoscopy Training Model 60
Cordocentesis Abdomen 74
Cordocentesis Trainer 74
Cricoid Stick Trainer 25
Curettage, Snip & Shave Excision Pad 55
Cutdown Pad 22
CVC 33, 34, 35
Cyst 54

D
Deinfibulation 84
Diagnostic Face with Lesions 56
Diagnostic Peritoneal Lavage (DPL) Trainer 22
Diagnostic Uterus with Normal Anatomy 72
Diagnostic Uterus with Polyps 72
Digital rectal examination 11, 12
Digital vaginal examination 12
Digital Video Interface 65
Diagnostic Uterus with Fibroid 72
Dilated Translucent Uterus 72
DPL Abdominal Wall 22
DPL Fluid Retention Tray 22

E
Ear Examination Simulator 5
Ear Set 5
ECHOZY Ultrasound Examination Training Model Abdominal Set 16
Ectopic Pregnancy 69
Edema 10
Elbow for Joint Injection 57
Elbow Needle Set 57
Electrocautery 69
Epidermis for ACF Pad 30
Epidermis for Injection Trainer (Pack of 2) 31
Epidermis for Three Vein Pad 31
Epidural procedures 36, 37
Episiotomy & Perineal Repair Block 83
Episiotomy & Perineal Repair Pad (Pack of 2) 83
Episiotomy Incision Pad (Pack of 6) 83
Episiotomy Pad 84
Episiotomy Trainer 84
Examination & Diagnostic Breast 14
Examination & Diagnostic Breast Trainer 14
Extended ACF Pad - Venipuncture 30
Eye Examination Simulator 4

F
FAST/ER FAN Ultrasound Examination Training Model 18
Female Catheterisation Unit 38
Female Catheterization Sphincter Kit 38
Female Catheterization Unit 39
Femoral Access Trainer 33
Fetal DemiseSIM 82
FGM Deinfibulation Insert Block 84
FGM Deinfibulation Perineal Skin (Pack of 3) 84
FGM Deinfibulation Perineum 84
FGM Deinfibulation Trainer 84
FGM Deinfibulation Upgrade Kit 84, 85
Foam Practice Material 66
Foot & Ankle for Joint Injection 58
Foot & Ankle Musculature 58, 59
Foot & Ankle Needle Set 58
Foot & Ankle Ring Block Inserts (Pack of 3) 59
Foot & Ankle Skin 58, 59

G
Gall Bladder with:
- Bifurcated Cystic Artery 71
- Normal Anatomy 71
- Short Cystic Duct 71
- Wide Common Bile Duct & Stones for Exploration 71

Gyne Dissection Pad 69

H
Hand expression 86
Hand & Wrist for Joint Injection 57
Hand & Wrist Needle Set 57
Hand & Wrist Skin 57
Helix Connectors (Pack of 10) 72
Huddersfield Foot & Ankle for Nerve Block 59
Hysteroscopic Diagnostic Trainer 72
Hysteroscopic Resection Trainer 72

I
Ingrowing Toenail Trainer 55
Injection Trainer 31
Intra Operative Ultrasound (IOU) System 63
Intra-uterine examination 72
Intraosseous Trainer 90
Intravenous access 32
Intravenous Hyperalimentation 33
IUDs 86
IV cannulation 91
IV catheter placement 34
IV Torso 32
IVH 33

J
Joint injection 56, 57, 58

K
K Plus Training System 9
Keele & Staffs Baby Head 83
Keele & Staffs Episiotomy Repair Trainer 83
Knee Aspirant (250ml) 58
Knee for Aspiration Mk 2 58
Knee Needle Set 58
Knee Skin Mk 2 58
Knot Tying Trainer 48
Knotting Tube (Pack of 3) 48

L
Large Body MITS 65
Large Surgical Dissection Pad 68
Lecat's Ventriloscope 7
Lesions Pad 53
Lipoma Pad 54
LSAT Trainer 8
Lumbar puncture 37, 91
Lumbar Puncture & Epidural Simulator Mk 2 36
Lumps & Bumps Pathologies Set 14
Lung Sound Auscultation Trainer 8, 9

M
Male Abdominal Wall 11
Male Catheterisation Unit 38
Male Catheterization Sphincter Kit 38, 39
Male Catheterization Unit 39
MamaNatalie Birthing Simulator 79
Medical Foot Care Model 59
Minimal Access Therapy Technique (MATT) Trainer - Standard 64
Mk 2 Rectal Examination Perineums 11
Mk 2 Rectal Examination Prostates (Set of 5) 11
Mock Blood - Arterial (250ml) 30, 70
Mock Blood - Venous (250ml) 22, 30, 74
Mock Blood Giving Set 22, 30
Mock LA Gel with Syringe 38, 39

N
Nasogastric tube 40
Needle cricothyrotomy 25
Needle decompression 21
Needle Decompression Pads (Pack of 2) 21
NeoNatalie 79
Newborn Anne 89
Newborn Anomaly Prosthetics 82
Newborn Bathing & Nursery Care Model 92
NG Tube & Trach Care Trainer 41
Nickie® Medical Training Doll 93
Nita Newborn 90
No-Trace Marker 56, 57, 58
Non-Episiotomy Birthing Abdomen & Perineum 78

O
Ocular Fundus Slides 4
Open Inguinal Hernia Repair Trainer 61
Oral suctioning 93
OtoSim™ Otoscopy Training & Simulation Unit 6
Otto Ostomy 42

P
PAT Pediatric Auscultation Trainer 87
Pat Pressure Ulcer Staging Model™ 94
Patient Care Simulator 40
Patient handling 40
Pediatric IV Hand Simulators 91
Pediatric Lumbar Puncture Simulator 91
PEG care 40
Penis, Bladder & Prostate 11
Perineal Repair Base & Clip 83
Perineal Repair Perineum 83
Perineal Repair Techniques Jig 83
Perineal Repair Trainer 84
Perineum & Bowel 62
Perineum, Testicles & Bowel 11
Peter PICC Line™ 34
PHaSES Abdominal Opening & Closure (AOCT) Trainer 49
PHaSES Advanced Course Pack 47
PHaSES Advanced Tissue Kit 46
PHaSES Double Layer Bowel 50
PHaSES for Minor Surgery Kit 48
PHaSES Instrument Kit 46
PHaSES Knot Tying Trainer 48
PHaSES Standard Course Pack 47
PHaSES Standard Tissue Kit 46
PHaSES Surgical Skills Board 49
PHaSES Toenail Kit 46
PHaSES Trainer 1 50
PHaSES Trainer 2 51
PHaSES Traumatic Wound 51
PICC 34, 90, 93
Pierre Robin 88
Pitting Edema Trainer 10
Professional Abdominal Opening & Closure Trainer (AOCT) 49
Professional AOCT Pad 49
Professional Skin Pad Mk 2 53
PROMPT Birthing Simulator 76, 77
PROMPT Birthing Simulator:
- Value Set 78
- Force Monitoring 77
- Standard 77

PROMPT Perineum Upgrade Kit 78
Pubourethral slings 74
Puncture Block 36

R
Radial artery puncture 26
Rectal Examination Trainer Mk 2 11
Resectable Uterus with Fibroid 72
Resectable Uterus with Polyps, Fibroid & Septum 72
Resusci Anne 20
Resusci Baby 89
Resusci Junior 89
Ring block 55

S
Sakura 40
Sebaceous Cyst Pad 54
Seymour II Wound Care Model™ 95
Shave excision 55
Shoulder for Joint Injection 56
Shoulder Needle Set 56
Shoulder Skin 56
Silicone Oil (50ml) 11
SimMom 80
Simulated Breast Milk (500ml) 86
Simulator Intravenous Arm II Set 27
Skill Games 1, 2, 3, 4 67
Skill Game Kit 66
Skin Pad & Muscle Block 31
Skin Pad Jig Mk 3 52
Skin Pad Jig Strap 52
Small Surgical Dissection Pad 68
Snip excision 55
Soft Tissue Practice Pad 66
Soft Tissue Retaining Set 66
SPACEFAN-ST Fetal Ultrasound Examination Trainer 75
Stan Stage IV Pressure Ulcer Model™ 94
Standard Bung 38, 39
Standard Chest Drain Pads (Pack of 2) 21
Standard MITS 65
Standard Venipuncture Arm 28
Stoma care 40, 93
Strap-on Breasts 14
Subcutaneous injection 31
Sultan Anal Sphincter Trainer 85
Suprapubic Bung 38, 39
Suprapubic Bung (Pack of 2) 38
Surgical cricothyrotomy 25
Surgical dissection 68
Surgical Female Pelvic Trainer (SFPT) with Advanced Surgical Uterus 73
Suture Tutor Plus 44
Synovial Sac Mk 2 58

T
T3-J MITS 65
T5 MITS 65
TEP Guildford MATTU Hernia Trainer 62
TEP Hernia 62
TEP Hernia Elastic Connectors 62
TEP Hernia Frame 62
TEP Hernia Peritoneum 62
Testicular examination 11
Thoracic & Lumbar Epidural Anaesthesia Simulator 37
Thoracostomy 21
Three Vein Pad - Venipuncture 31
Tissue Mounting Board 66
Toe Ends (Pack of 3) 55
Toe Jig 55
TPN 33, 40
TPN/IVH Care Simulator 33
Tracheostomy care 41
Tracheostomy management 93
Tracheotomy care 40
Traci 24
Translucent Uterus 86
TruCorp AirSim Baby 88
TruCorp AirSim Child 88
TruCorp AirSim Pierre Robin 88
Tube Feeding Simulator 41
Two Coloured Cord (Pack of 3) 48

U
Ultrasound 15, 18, 21, 74
Ultrasound CVC Insertion Simulator Mk 2 35
Ultrasound Vascular Access Slab 32
Ultrasound Vascular Access Trainer 32
Umbilical catheterization 90
Umbilical Cord 86
Universal Base 72
Universal Base Drainer 72
Universal Base Splash Shield 72
Urethral Sling Procedure Trainer 74
Uterus Clamp 72

V
Vagina & Bladder Assembly 74
Vaginal & Abdominal Sheath 74
Vascular access 34, 90
Vascular Access Trainer 32
Vein for ACF Pad 30
Vein for Three Vein Pad 31
Venipuncture 30, 90, 91
Venous access 86
Vermiform Appendices 70

W
Wilma Wound Foot™ 95
Wound Closure Pad 52

1. Definitions
"the Company" means Limbs & Things Incorporated.
"the Customer" means any party contracting with the Company.
"Goods" means any equipment or other article or product to be sold by the Company to the Customer.

2. Applications of Conditions
The terms set out hereunder shall apply to any contract made between the Company and the Customer. These terms to the exclusion of all other terms and conditions constitute the entire contract between the Company and the Customer. No person other than a Director of the Company shall have the authority on behalf of the Company to vary waive or add to these terms or to make any agreement or give any consent referred to therein and no such variation waiver addition or agreement or consent shall be binding upon the Company unless it is in writing and signed by a director.

3. Orders and Quotations
(i) No quotation made by the Company shall constitute an offer to contract with the Customer. Any order placed by the Customer in response to such a quotation shall constitute an offer made to the Company on the terms set out herein and shall be binding on the Company only if it is accepted by the Company in writing.
(ii) In any event without prejudice to the preceding sub-clause the supply of the Goods shall only be upon the terms set out herein (subject to any variation waiver addition or agreement made in accordance with Clause 2) and acceptance of delivery of the Goods shall be confirmation of the agreement of the Customer thereto in default of any prior agreement.

4. Price
(i) The Company's prices are quoted in United States Dollars unless otherwise indicated on the quotation and are exclusive of all government duties and taxes relating to the supply for which the Customer will remain liable at the relevant rate.
(ii) Until an order is binding on the Company in the terms set out in Clause 3 all prices are subject to variation without notice.
(iii) Requests by the Customer to modify or vary specifications must be agreed in writing by the Company and made subject to the Customer paying any resulting additional costs or price increases.
(iv) The Company reserves the right to modify quoted prices whether before or after the order is binding on the Company if prices of components imported from outside the United States or Canada are affected by changes in exchange rates or government duties or taxes to take account of any other variation in costs including without limitation variation in the cost to the Company of supplies, materials, labor, operation or transport provided that in the event of any such changes in price after the purchase order has been placed by the Customer the Customer shall be entitled to cancel the order within 7 days of being notified of the change and each party shall thereupon be discharged from any further liability in relation to the order.
(v) Cost, Insurance and Freight: The cargo insurance and delivery of goods to the named port of destination (discharge) at the seller's expense. Buyer is responsible for the import customs clearance and other costs and risks.

5. Payment
(i) Each consignment shall be invoiced to the Customer together with the cost of carriage where appropriate on the acceptance of an order and except as otherwise agreed the Goods shall not be delivered before payment is made.
(ii) The Company reserves the right to charge interest at 1.5% per month (18% per annum).

6. Title
(i) Notwithstanding delivery of the Goods or of any document representing the Goods the property in each item of the Goods shall remain with the Company until full payment has been received by the Company for all goods whatsoever supplied by the Company to the Customer under this or any other contract.
(ii) Until such receipt by the Company the Customer shall:
(a) (unless otherwise agreed by the Company in writing) ensure that the Goods are properly stored separately or marked so that they may be readily identified as the property of the Company;
(b) keep the Goods in its possession and control intact and in a good state of repair and condition;
(c) keep the goods insured to their full value against all risks,
(d) not remove the Goods from the United States except as envisaged by this order or otherwise with the Company's prior consent;
(e) keep the Goods free from any charge, pledge lien or other encumbrance and from any distress, execution or other legal process; and
(f) upon request inform the Company of the whereabouts of the Goods and procure that the Company shall have access thereto at all times on reasonable notice;
(g) not sell assign or let the Goods or any interest therein.
(iii)In the event that payment for Goods is overdue in whole or in part or the Customer becomes bankrupt or has a receiver, liquidator or administrator appointed in respect of it's business or is otherwise shown to be insolvent, the Company may (without prejudice to its other rights) recover or resell the Goods or any of them and may enter upon the Customer's premises for that purpose.

7. Import and Export Licenses
(i) The Customer is responsible for obtaining all import licenses and indemnifies the Company for losses incurred in respect of Goods shipped without valid import licenses.
(ii) Delivery is subject to the granting of all necessary export licenses and the Company accepts no liability arising from any delay in obtaining such licenses.

8. Delivery
(i) Delivery of the Products will be arranged by the Company on or as close as possible to the Customer's requested delivery date subject to the Company's existing priorities and schedules. The Customer will be advised of Company's estimated time or date for delivery which is an estimate only and may be cancelled or revised at the Company's option. The Products comprised in any order may be delivered and invoiced in installments, at the Company's discretion.
(ii) If the Customer fails to take delivery of the goods or fails to give the Company adequate delivery instructions at the time stated for delivery (otherwise than by reason of any cause beyond the Customer's reasonable control or by reason of the Company's fault) then, without prejudice to any other right or remedy available to the Company, the Company may; (a) store the goods until actual delivery and charge the Customer for the reasonable costs (including insurance) of storage or (b) sell the goods at the best price readily obtainable and (after deducting all reasonable storage and selling expenses) account to the Customer for the excess over the price under the Contract or charge the Customer for any shortfall below the price under the contract and in addition the Customer shall indemnify the Company against all costs claims expenses (including without limitation demurrage) or damages howsoever arising as a result of the Customer's failure to take or delay in taking delivery.

9. Inspection on arrival
The Customer shall inspect the Goods on delivery at its destination and the Company shall not be liable for any damage to or defect in the Goods or for any shortage on arrival at its destination for which it would otherwise be liable hereunder unless the Customer shall have notified the Company and the carrier within 7 days of arrival and shall have given the Company reasonable opportunity to inspect the Goods concerned.

10. Liability
(i) The Company shall be responsible for any personal injury or death to the extent that it is shown to be caused by any negligence on the part of the Company and not directly or indirectly by any misuse negligence willful act or default by the Customer but in no circumstances will the Company be responsible for any loss of business or profit, arising for any reason including negligence on the part of the Company.
(ii) The Customer will keep the Company and its employees agents and other subcontractors indemnified against any claim made by third parties relating to the Goods except any claim for which the Company accepts responsibility under the preceding sub-clause.
(iii) Whereupon an inspection of the Goods under clause 9 the Company is satisfied that any damage to or defect in the Goods or shortage arose prior to the risk therein passing to the Customer this Company shall immediately at its own expense replace the Goods or make good any shortage as appropriate.
(iv) Except as provided in sub-clause 10(i) and 10(iii) the Company excludes all other terms conditions and warranties whether express or implied and whether arising by statute or otherwise relating to the capacity quality description state or condition of the Goods or to their merchantability or fitness for the particular or any purpose for which they are or may be required and the Customer shall be taken to have satisfied itself as to the fitness of the Goods for that purpose.

11. Design rights
The Company retains full ownership of all inventions, designs, copyrights and processes relevant to the Goods created by or for the Company. Any drawings, specifications or manuals issued by or on behalf of the Company are copyright and confidential and the Customer may not reproduce the same or divulge the same to any third party without the Company's prior written consent. All rights subsisting in such drawings, specifications and manuals are reserved.

12. Patents
If any of the Goods have been designed, manufactured or processed either wholly or in part to the Customer's specification the Customer shall indemnify the Company against all claims arising from infringement of patents, designs and copyright with respect thereto.

13. Force Majeure
If the Company's ability to perform its obligations hereunder is limited, delayed or prevented in whole or in part by any reason whatsoever not reasonably within its control, including without limitation fire storm and tempest, war invasion act of foreign enemy, hostilities (whether war be declared or not), civil war, rebellion civil strife, strikes and/or Industrial disputes or any law, rule, regulation order or other actions by any public authority, transportation delays or the refusal or delay in granting any necessary export license, the Company shall be excused, discharged and released without penalty from performance of the contract to the extent that such performance is limited, delayed or prevented. In the event that the Goods or any part thereof have been delivered the Customer shall pay to the Company the proportion of the contract price appropriate to what has been delivered. In the event that nothing has been delivered and the Contract becomes impossible to perform for reasons not reasonably within the Company's control, the Company's liability shall be limited to repayment to the Customer of any relevant sums paid by him to the Company.

14. Assignment
Neither this contract nor any of the rights or obligations hereunder shall be assigned by the Customer without the prior written consent of the Company.

15. Severable
Where the sales relates to more than one item it shall be a separate and severable contract in relation to each item.

16. Applicable laws
The contract shall be governed and construed in all respects in accordance with the laws of United States.

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